

I-81 VIADUCT PROJECT - PHASE 1, CONTRACT 1

PIN 3501.90, Contract D900054

DB CONTRACT DOCUMENTS REQUEST FOR PROPOSALS

PART 7
ENGINEERING DATA
(PART 1 OF 5)

Draft May 17, 2022

ENGINEERING DATA

TABLE OF CONTENTS
ASBESTOS SURVEY REPORTS

Asbestos Survey Reports



BRIDGE ASBESTOS INSPECTION RESULTS



Bridge Widening and Rehabilitation



BIN 1072781

I-81 (Former I-481) SB over Totman Road

BIN 1072781

Location: I-481 SB over Totman Road

NYSDOT D031085 PIN 3501.60 - I-81 Viaduct Replacement or New Urban Arterial

City of Syracuse, Onondaga County Bridge Asbestos Assessment Results

No asbestos containing materials have been identified on this bridge.

The following summarizes the results of the most recent asbestos survey and record plan review.

Watts Inspection Findings (December 2013)

A bridge inspection was completed on 12/11/2013 and the following suspect ACMs were identified and sampled:

- Bearing pad
- Grey masonry paint
- Grey caulk at fence on top of sidewall

None of these materials came back positive for asbestos.

Review of Bridge Record Plans

Record plans were reviewed in support of the field survey.

- Contract D250416 (dated 1982) No suspect materials were identified in the review of this
 record plan set. The NYSDOT has confirmed that they do not consider Type D waterstop
 to be a suspect material.
- Contract D259214 (dated 2002) No suspect materials were identified in the review of this record plan set.

Previous Survey Results

A previous asbestos survey completed by LaBella in 2001 was reviewed in support of this project. No asbestos containing materials were identified.

No additional sampling and materials testing is required for this structure.



Watts Architecture & Engineering

BRIDGE ASBESTOS FIELD INSPECTION FORM

BIN Number/Location: 1072781 (481 S6 over Totman Rd)

Project Name: : I-81 Viaduct Replacement or New Urban Arterial Inspection Date: 12/11/13 PIN Number: PIN: 3501.60, D031085 13092 Inspector(s): Watts Project No: William Koch Field Inspection Checklist ltem Girder Paint Truss Paint **⊠** 4-6 Abutment Coating Abutment Caulk Abut. Exp. Jt. Filler \boxtimes Headwall Sheet Packing S 1-3 X Bearing Pad Transite Pipe wooden fence/wall attached to side \propto Pipe Coating/Wtr. Proof North Scupper Wtr. Proof X Real North ∇ Dum Dum Paint Deck Caulk along force 💹 **M** 17-9 Ø Deck Exp. Jt. Filler X Approach Sheet Packing Railing Paint X Railing Caulk Sidewalk Caulk Lighting Pole Caulk ∇ Masonry Castings Miscellaneous Tar Utilities Other Other Other Other

SAMPLE LOCATION PLAN VIEW - N.T.S.

Notes: No exp. caulk	
· Grey masonny caulk	
· Bearma oads Sampled	
· No order paint found	
0 1	

Other



EMSL Analytical, Inc.

490 Rowley Road, Depew, NY 14043

Phone/Fax: (716) 651-0030 / (716) 651-0394

http://www.EMSL.com buffalolab@emsl.com

EMSL Order:
CustomerID:
CustomerPO:

ProjectID:

141400415 WATT50A

Attn: Scott Matthews
Watts Architecture & Engineering
2610 Salina Street
Syracuse, NY 13205

Phone: (315) 443-8611 Fax: (315) 443-8605 Received: 02/04/14 10:00 AM

Analysis Date: 2/9/2014 Collected: 12/11/2013

Project: 13092 - 181 Viaduct Replacement or New Urban Arterial Bin 1072781 - 481 S.B. Over Totman Rd

Test Report: Asbestos Analysis of Bulk Material

		Analyzed		Non A	Asbestos	
Test		Date	Color	Fibrous	Non-Fibrous	Asbestos
Sample ID	1072781-1		Description	bearing pad		
	141400415-0001		Homogeneity	Homogeneous		
PLM NYS 19	8.1 Friable					Not Analyzed
PLM NYS 19	98.6 VCM					Not Analyzed
PLM NYS 1	98.6 NOB	2/7/2014	Brown /Red			Inconclusive: None Detected
TEM NYS 1	98.4 NOB	2/9/2014	Brown /Red			None Detected
Sample ID	1072781-2		Description	bearing pad		
	141400415-0002		Homogeneity	Homogeneous		
PLM NYS 19	8.1 Friable					Not Analyzed
PLM NYS 19	98.6 VCM					Not Analyzed
PLM NYS 1	98.6 NOB	2/7/2014	Brown /Red			Inconclusive: None Detected
TEM NYS 1	98.4 NOB	2/9/2014	Brown /Red			None Detected
Sample ID	1072781-3		Description	bearing pad		
	141400415-0003		Homogeneity	Homogeneous		
PLM NYS 19	8.1 Friable					Not Analyzed
PLM NYS 19	98.6 VCM					Not Analyzed
PLM NYS 1	98.6 NOB	2/7/2014	Brown /Red			Inconclusive: None Detected
TEM NYS 1	98.4 NOB	2/9/2014	Brown /Red			None Detected
Sample ID	1072781-4		Description	grey masonry paint		
	141400415-0004		Homogeneity	Homogeneous		
PLM NYS 19	8.1 Friable					Not Analyzed
PLM NYS 19	98.6 VCM					Not Analyzed
PLM NYS 1	98.6 NOB	2/7/2014	Gray			Inconclusive: None Detected
TEM NYS 1	98.4 NOB	2/9/2014	Gray			None Detected
Sample ID	1072781-5		Description	grey masonry paint		
	141400415-0005		Homogeneity	Homogeneous		
PLM NYS 19	8.1 Friable					Not Analyzed
PLM NYS 19	98.6 VCM					Not Analyzed
PLM NYS 1	98.6 NOB	2/7/2014	Gray			Inconclusive: None Detected
TEM NYS 1	98.4 NOB	2/9/2014	Gray			None Detected



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buffalolab@emsl.com http://www.EMSL.com

EMSL Order: CustomerID: CustomerPO:

ProjectID:

141400415 WATT50A

Test Report: Asbestos Analysis of Bulk Material

Non Asbestos

				NOII A	spesios	
Tes	t		Color	Fibrous	Non-Fibrous	Asbestos
ample ID	1072781-6		Description	grey masonry paint		
	141400415-0006		Homogeneity	Homogeneous		
LM NYS 19	98.1 Friable					Not Analyzed
PLM NYS 1	98.6 VCM					Not Analyzed
PLM NYS 1	198.6 NOB	2/7/2014	Gray			Inconclusive: None Detecte
TEM NYS 1	198.4 NOB	2/9/2014	Gray			None Detected
ample ID	1072781-7		Description	grey caulk at fence on top of	sidewall	
	141400415-0007		Homogeneity	Homogeneous		
LM NYS 19	98.1 Friable					Not Analyzed
PLM NYS 1	98.6 VCM					Not Analyzed
PLM NYS 1	198.6 NOB	2/7/2014	Gray			Inconclusive: None Detecte
TEM NYS 1	198.4 NOB	2/9/2014	Gray			None Detected
ample ID	1072781-8		Description	grey caulk at fence on top of	sidewall	
	141400415-0008		Homogeneity	Homogeneous		
LM NYS 19	98.1 Friable					Not Analyzed
PLM NYS 1	98.6 VCM					Not Analyzed
PLM NYS 1	198.6 NOB	2/7/2014	Gray			Inconclusive: None Detecte
TEM NYS 1	198.4 NOB	2/9/2014	Gray			None Detected
ample ID	1072781-9		Description	grey caulk at fence on top of	sidewall	
	141400415-0009		Homogeneity	Homogeneous		
LM NYS 19	98.1 Friable					Not Analyzed
PLM NYS 1	98.6 VCM					Not Analyzed
PLM NYS 1	198.6 NOB	2/7/2014	Gray			Inconclusive: None Detecte
FEM NIVO	198.4 NOB	2/9/2014	Gray			None Detected

Analyst(s)

Rachel Giese

Rhonda McGee

Rhonda McGee, Laboratory Manager or other approved signatory

NOB = Non Friable Organically Bound N/A = Not Applicable VCM = Vermiculite Containing Material

-In New York State, TEM is currently the only method that can be used to determine if NOB materials can be considered or treated as non-asbestos containing. All samples examined for the presence of vermiculite when analyzed via NYS 198.1.

-NYS Guidelines for Vermiculite containing samples are available at http://www.wadsworth.org/labcert/elapcert/forms/VermiculiteInterimGuidance_Rev070913.pdf EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples were received in good condition unless otherwise noted.

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. This report may contain data that is not covered by the NVLAP accreditation.

Samples analyzed by EMSL Analytical, Inc. Depew, NY NYS ELAP 11606

1414004	15
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Page: Date:

Client:	C&S/	DOT

181 Viaduct Replacement or New Urban Arterial

Watts Project No.: 13092

Analysis Requested:

- Project: Building / Location:

Turnaround Requested:

48 Hr.

Contact: Scott Matthews

BIN 1072781

(481 S.B. over Thomas at (315) 443-8611

6 Hr. 72 Hr. 12 Hr.

Email Preliminary Results to:

smatthews@watts-ae.com

24 Hr.

3 Hr.

X 5 Day Iweek 6-10 Day

Mail Invoice to:

Accounts Payable

Mail Report to:

Scott Matthews

PLM X TEM

Watts Architecture & Engineering, P.C. 95 Perry Street, Buffalo, NY 14203

Watts Architecture & Engineering, P.C. 2610 S Salina Street, Syracuse, NY 13210

Sample Laboratory Results Material Description Sample Location Number PLM 1072781 - 1 5. end abutmont Bearing Pad end abutment (1 paint masonni 11 6 Grey caulk on at fence on top of sidewall MECEIWEN

Sampled By:

Scott Matthews/Will Kack

Received By:

Date:

Relinquished By:

Scott Matthews to FedEx

Date:

Received By:

Date:

Comments:



BIN 1072781 Inspection Photos

I-81 (Former I-481) SB over Totman Road

Photo 1



Photo 2

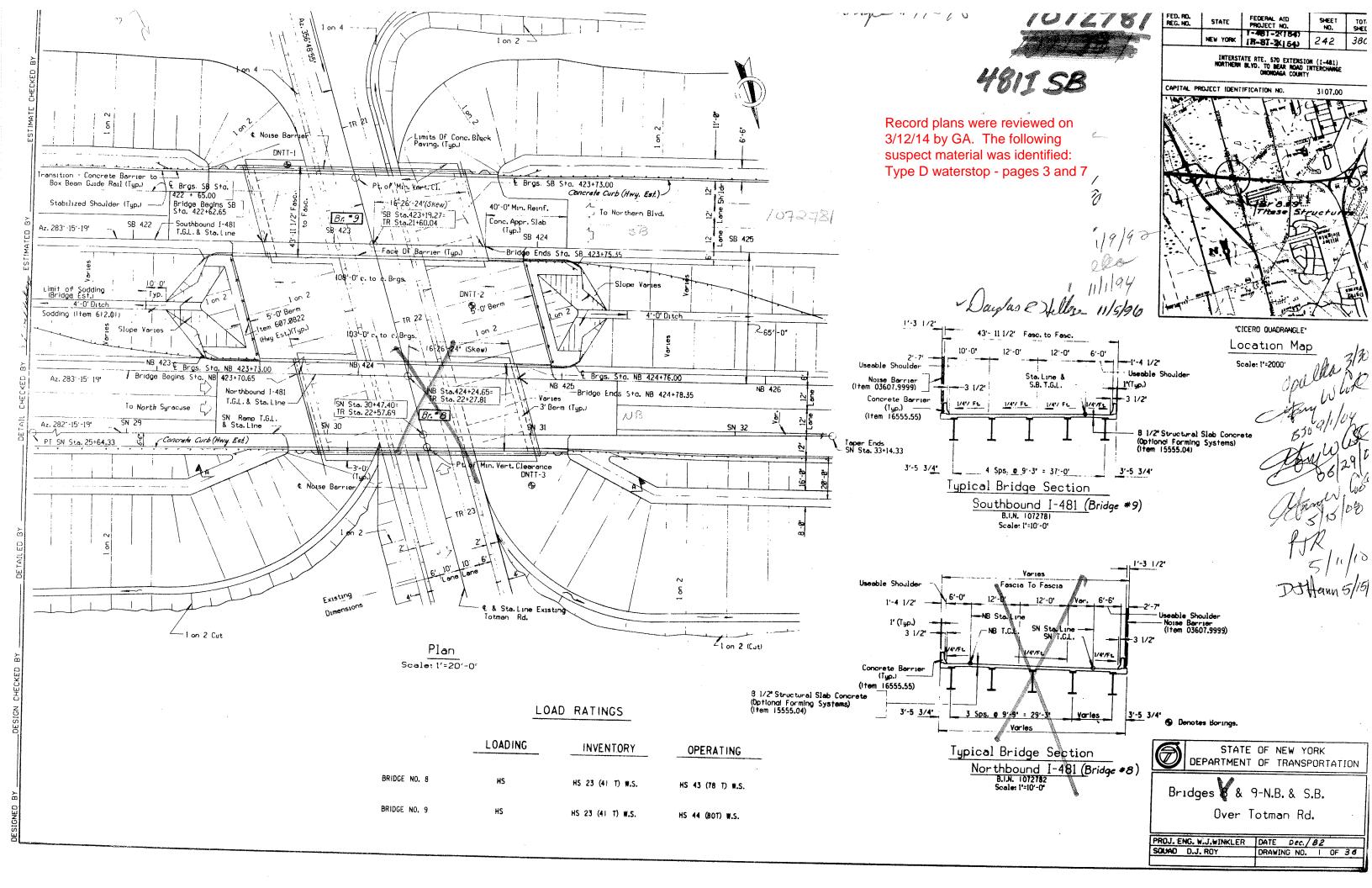


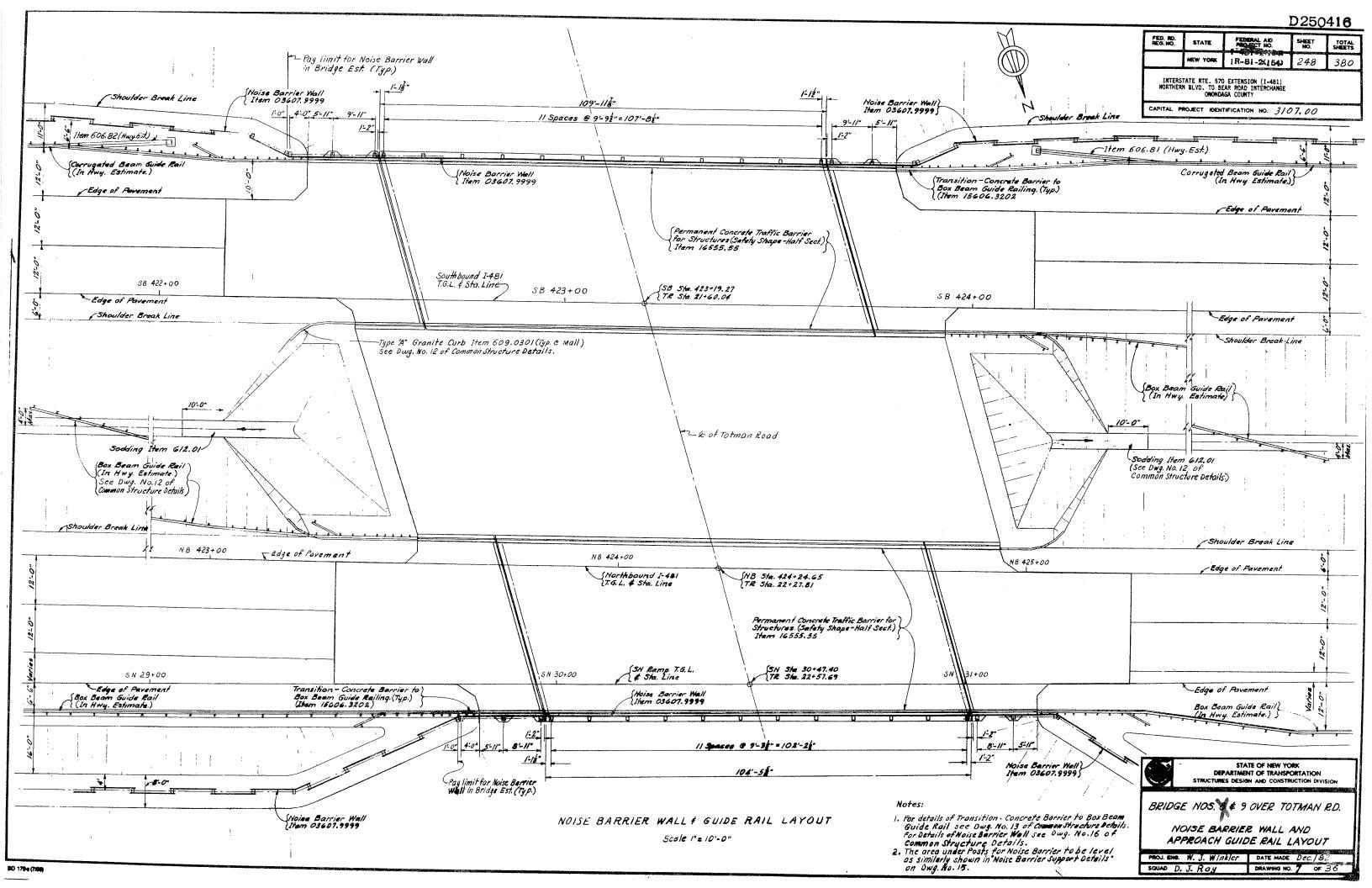
Photo 3

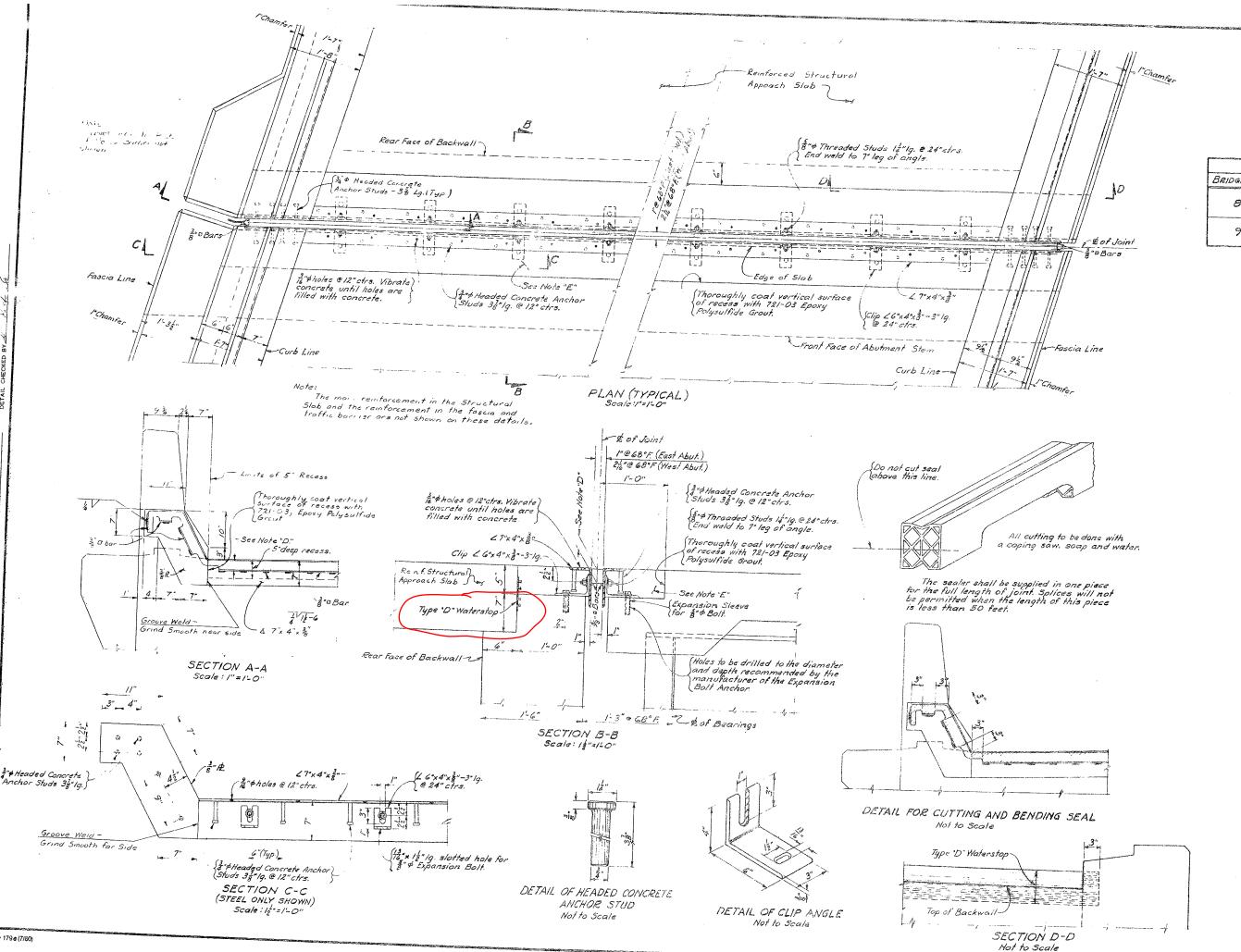


Photo 4









FED. RD. REG. NO. SHEE NO. STATE NEW YORK IR-81-2(154)

INTERSTATE RTE, 570 EXTENSION (I-481) NORTHERN BLVD. TO BEAR ROAD INTERCHANGE OWONDAGA COUNTY CAPITAL PROJECT IDENTIFICATION NO. 3/07.00

JOINT TABLE BRIDGE NO. LOCATION ITEM No. East Abut. Item No. 567.31 8 West Abut. Item No. 567.35 East Abut Item No. 567.31 9 West Abut. Item No. 567.35

Note "D"

This depth shall be indicated on the shop and shall be such that when the seal is compre 50% of its normal width the top of the seal s not less than \$ "nor more than \$ "below the seal shall be seal to the seal shall be seal shall of roadway.

Note "E"

Note "E"
Concrete in recesses on superstructure profor installing the Armored Joint System shall with the Spacifications for the structural state except that machine finishing will not be req. No additional payment will be made for furnity and placing this concrete as this quantity lie within the limits of the area to be paid for the item. the item.

It is desirable to have the Armored Joir its Compression Seal assembled in the shop delivered to the job site ready for installation its preformed recess in the structural sk in cases where the Armored Joint cannot be assembled in the shop, due to its excessive causing shipping problems, the joint shall sealed with the Compression Seal before the structure is opened to traffic, including constraific, and before discontinuing operations of the suspended during the Winter.

The cost of furnishing and placing the L. Polysulfide Grout shall be included in the unit bid for the slab item.

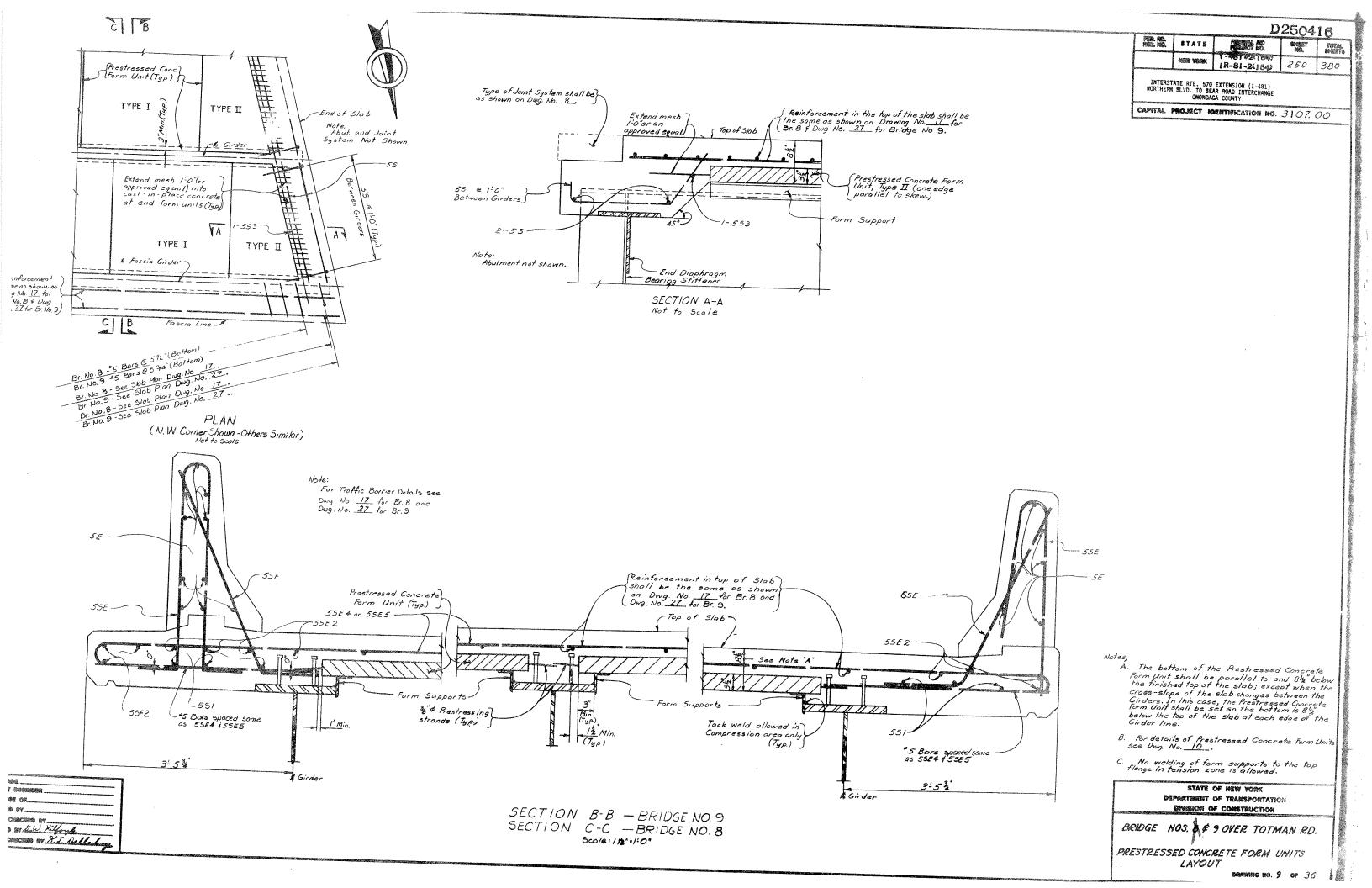


STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN AND CONSTRUCTION DIVIS

BRIDGE NOS & & 9 OVER TOTMAN R

DETAILS OF ARMORED JOINT SYSTEM WITH COMPRESSION SEAL

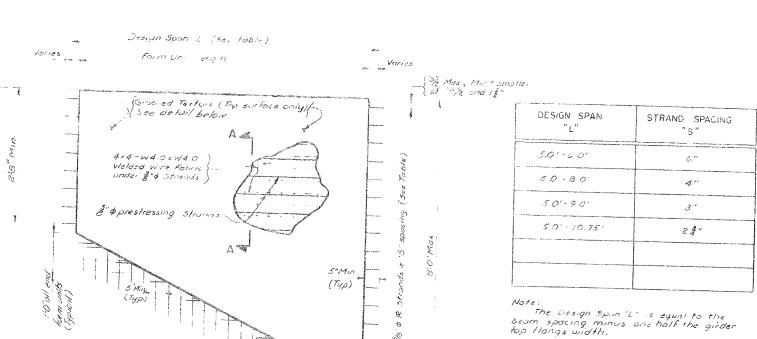
SQUAD D. J. ROV



Fall 200. 1966, 860 PERMAND NO SPÆEY MÖ. STATE HEW KNAX 18-81-2(154) 251

INTERSTATE RIE, 575 EXTENSION (1-481) NURTHERN BLVD, TO BEAR ROAD INTERCHANGE ONONDEGA COUNTY

CAPITAL PROJECT IDENTIFICATION NO 3/07.0



2 /

PRESTRESSED CONCRETE FORM UNIT DETAILS

Texture Surface

& Prestiessing Strand

4 x 4 - W4 0 x W4 0 Walded Wire Mesh

"5" Dimension from table

TYPE II

10/1/2

Volics

SECTION A-A

710 : smotter

5ºMin. (Typ)

Surface only) see

For no Un. + Length

Design Spon 'L' (see tuble) TYPE I

4x4 W40 x W4.0 Welded Wire Fabric Under & 5tr inds

& aprestressing strains

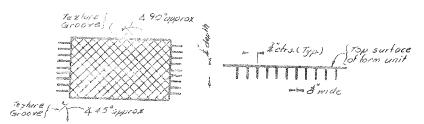
& p strand extension (Typ)}

Vor es

FORM UNIT NOTES

The prestressing strands shall be 3/8 inch diameter with a guaranteed ultimate strength of 370 ksi, Jacking force shall be 16, 100 lbs. per strand.

Required minimum concrete strength of transfer shall be 4,000 psi.
Required minimum concrete strength of 28 days shall be 5,000 psi. The ollowoble tension in the prestressed concrete units of transfershall be 0 fici psi, of 28 day strength shall be 0 fixpsi.



TEXTURE SURFACE DETAIL

Note: This drowing shows typical details, all a which may not be required on any given birdy Likewise, the skew, beam spacing and other details may not match those in the painter hides Dridge.

See "Deck Form Options" note on Drug. Nos. 17

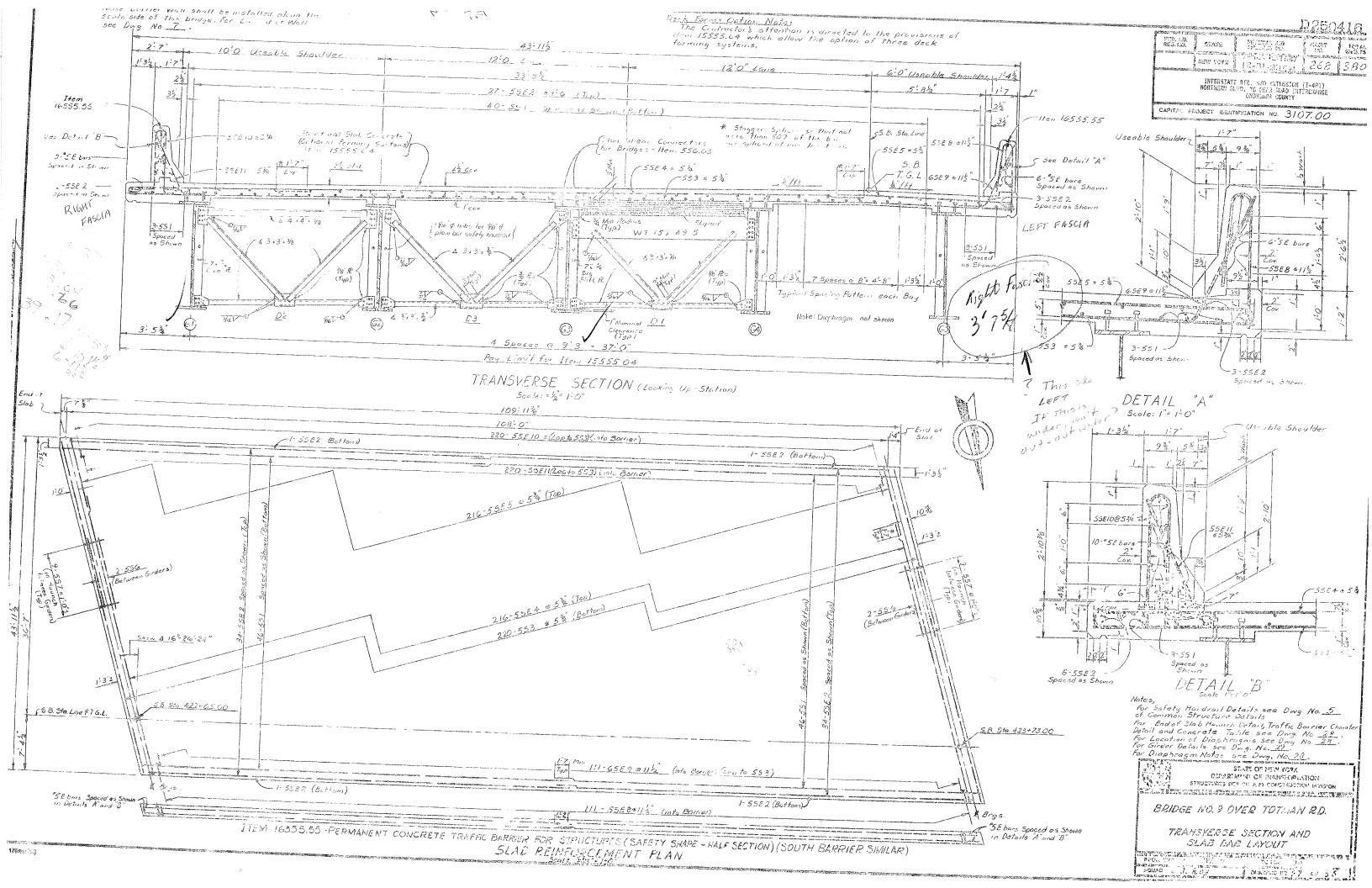


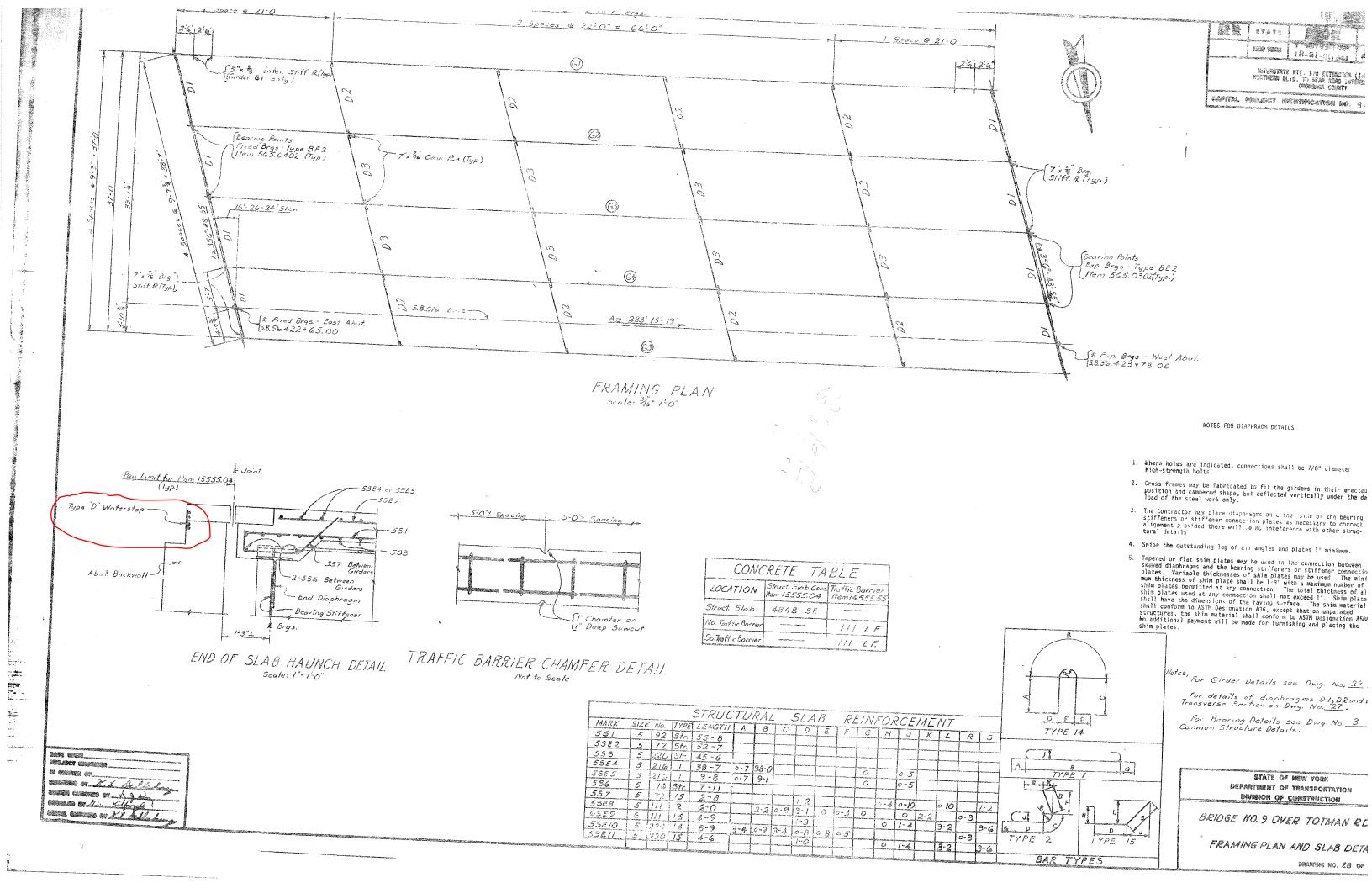
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION DIVISION OF DESIGN AND CONSTRUCTION

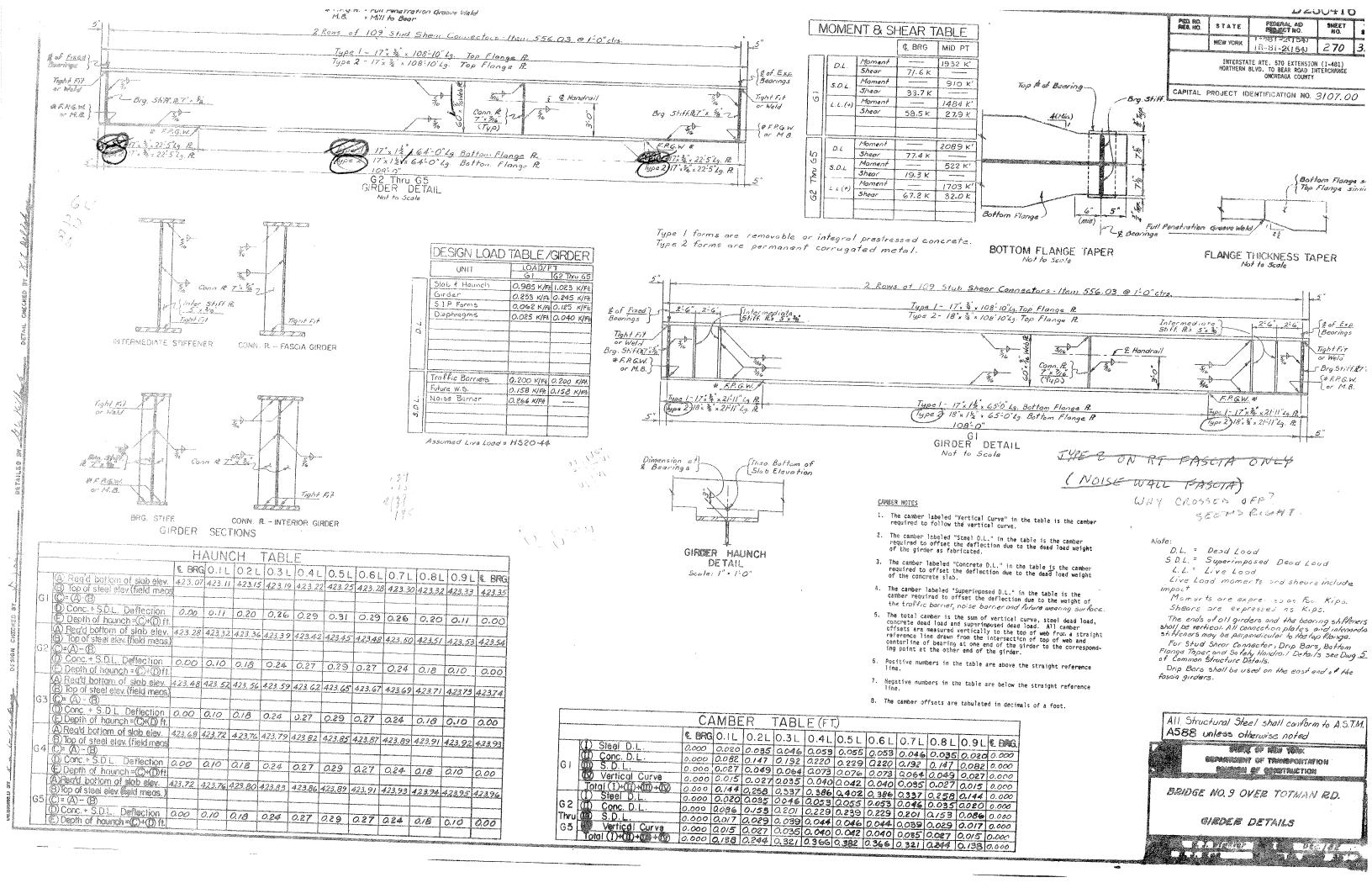
BRIDGE NOS. \$ \$ 9 OVER TOTMAN RD.

PRESTRESSED CONCRETE FORM UNITS -TYPICAL DETAILS

PRODUCTIONS W. J. Winkler DATE MADE Dec/82







STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
OFFICE OF ENGINEERING

BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC) VARIOUS BRIDGES ON INTERSTATE 481 TOWNS OF DEWITT AND CICERO

VOLUME 1 OF 2

432 SHEETS

ONONDAGA

COUNTY

CONTRACT D259214

1072781

F.A. PROJECT

Record plans were reviewed on 3/12/14 by GA. No suspect materials were identified.

M203-4, M203-5, M203-6R1, M603-1 M606-32, M606-33, M606-34, M619-3R1, M619-4, M619-5 M685-1, M685-2R1, M685-3R1 M685-4R1, M685-5R1, M403-1, M203-4, M203-5, M203-6R1, M603-1

STANDARD SHEETS

However, there was reference to ACM being removed as part of the rehabilitation - page 7.

ALL WORK CONTEMPLATED UNDER THIS CONTRACT IS TO BE COVERED BY AND IN CONFORMITY WITH THE STANDARD SPECIFICATIONS CHETRIC UNITS) OF JANUARY 2, 2002, AS AMENDED BY ADDENDA NOS. 1 AND 2, EXCEPT AS MODIFIED ON THESE PLANS AND IN THE ITEMIZED PROPOSAL.

CONTRACTOR'S NAME AWARD DATE COMPLETION DATE_ FINAL ACCEPTANCE DATE REGIONAL DIRECTOR ENGINEER IN CHARGE FINAL COST TOTAL FISCAL SHARE COST(S)

THIS IS A BRIDGE REHABILITATION PROJECT ON VARIOUS BRIDGES ON INTERSTATE 481, LOCATED IN THE TOWNS OF CICERO AND DEWITT IN ONONDAGA COUNTY. THIS WORK CONSISTS OF BRIDGE JOINTS, BEARINGS, BRIDGE RAIL AND CONCRETE REPAIR OF SUBSTRUCTURES. THERE ARE 28 BRIDGES IN THE PROJECT BEGINNING AT REFERENCE MARKER 4811-3301-1000 SOUTH OF THE CITY OF SYRACUSE AND ENDING AT REFERENCE MARKER 4811-3301-2143.

81)	
	1031711
1069131 1069141	1072791 1HOLESON HOLD MODES ON ADD
1069142	ТОТИАН ROAD ТОТИАН ROAD 1072781 1072782
1002131 1004650 1093510 1093571 1093671	481
1002132 6	72501
1093550 1093572 1093672 298 PROJECT_LOCATION	NOT TO SCALE

BRIDGE REHAB. PROJ .- ELEMENT SPECIFIC VARIOUS BRIDGES ON INTERSTATE 481 TOWNS OF DEWITT AND CICERO ONONDAGA COUNTY FED. ROAD REG. NO. STATE SHEET NO. TOTAL SHEETS 432 FEDERAL AID
PROJECT NO.
CAPITAL PROJECT
IDENTIFICATION NO. 3056.13

DATE REGIONAL TRANSPORTATION MAINTENANCE ENGINEER DATE

REGIONAL TRAFFIC ENGINEER

ECOMMENDED BY

INDEX ON SHEET NO. 5 & 6 "

	INDEX	,
SHEET NO.	DESCRIPTION	DRAWING NO.
1	TITLE SHEET	COVER
2,3,4	ESTIMATE OF QUANTITIES	
5,6	INDEX	IDX-1 - IDX-2
7-155	MAINTENANCE AND PROTECTION OF TRAFFIC	MPT-1 - MPT-149
156	CROSSOVER TYPICAL SECTION	CTS-1
157-160	CROSSOVER SURVEY CONTROL DATA	HC-1 - HC-4
161-166	CROSSOVER PLANS	CPL-1 - CPL-6
167-174	CROSSOYER PROFILES	CPR-1 - CPR-8
175-177	CROSSOVER MISC. DETAILS	CMD-1 - CMD-3
178-179	CROSSOVER MISC. TABLES	CMT-1 - CMT-2
180-191	ESTIMATE OF QUANTITIES BY STRUCTURE	QE-1A - QE-4C
192	GENERAL NOTES	GN-1
		004 4
193	BIN 1002131, I481SB/RT. 5, PLAN AND ELEVATION	GP1-1
194	BIN 1002131, TYPICAL BRIDGE SECTION AND PROFILE	TS1-1
195-197	BIN 1002131, SOUTH ABUTMENT (SB)	AB1-1 - AB1-3 AB1-4 - AB1-5
198-199	BIN 1002131, NORTH ABUTMENT (SB), SHEET PILING LAYOUT	
200-201	BIN 1002131 PIER 1 & PIER 2 SB REMOVAL DETAILS	PR1-1 & PR1-2
202	BIN 1002131, PEDESTAL REPLACEMENT	PR1 -3
203	BIN 1002131, BOLSTER DETAILS	PR1-4
204	BIN 1002131, ANCHOR BOLT LAYOUT (SB)	PR1-5
	THE SAME TO SAME THE SAME TO SAME THE S	000-4
205	BIN 1002132, I481NB/RT. 5, PLAN AND ELEVATION	GP2-1 TS2-1 & TS2-2
206-207	BIN 1002132, TYPICAL BRIDGE SECTION AND PROFILE, APPROACH SECTION	AB2-1 - AB2-6
208-213	BIN 1002132, SOUTH ABUTMENT (NB)	AB2-7 - AB2-12
214-219	BIN 1002132, NORTH ABUTWENT (NB)	PR2-1 & PR2-2
220-221	BIN 1002132, PIERS (NB) BIN 1002132, PEDESTAL REPLACEMENT (NB)	PR2-3
222	BIN 1002132, FLDESTAE RELEASEMENT WISH	PR2-4
223	BIN 1002132, ANCHOR BOLT LAYOUT (NB)	PR2-5
	DIN 1002122, ANDION SEET EATON WITH	,,,,,
225	BIN 1031711 AND 1031712, I-481/I-81, PLAN AND ELEVATION	GP3-1
225	BIN 1031711 & 1031712, TYPICAL BRIDGE SECTION AND PROFILE	TS3-1
227	BIN 1031711, EAST ABUTMENT (SB) PLAN & ELEVATION	AB3-1
228	BIN 1031711, WEST ABUTMENT (SB) PLAN & ELEVATION	A83-2
229	BIN 1031712, EAST ABUTMENT (NB) PLAN & ELEVATION	AB3-3
230	BIN 1031712, WEST ABUTMENT (NB) PLAN & ELEVATION	A83-4
231	BIN 1031711 & 1031712, APPROACH SLABS	AS3-1
232	BIN 1064650, KINNE RD/1-481, PLAN, ELEVATION, AND BRIDGE SECTION	GP4-1
233	BIN 1069131 & 1069132, 1-481/QUARRY DRIVEWAY, PLAN AND ELEVATION	GP5-1
234	BIN 1069131 & 1069132, TYPICAL BRIDGE SECTION AND PROFILE AND BRIDGE SECTION	TS5-1
235	8IN 1069131, WEST ABUTMENT (SB) PLAN & ELEVATION	A85-1
236	BIN 1069131, EAST ABUTMENT (SB) PLAN & ELEVATION	A85-2
237	BIN 1069132, EAST ABUTMENT (NB) PLAN & ELEVATION	AB5-3
238-239	BIN 1069141 & 1069142, I-481/NYS + W RAILROAD, GENERAL PLAN AND ELEVATION	GP6-1 - GP6-2
240-241	BIN 1069141 & 1069142, TYPICAL BRIDGE SECTION AND PROFILES	TS6-1 & TS6-2
242	BIN 1069141, WEST ABUTMENT (SB) PLAN & ELEVATION	A86-1
243	BIN 1069141, EAST ABUTMENT (SB) PLAN & ELEVATION	A86-2
244	BIN 1069142, WEST ABUTMENT (NB) PLAN & ELEVATION	A86-3
245	BIN 1069142, EAST ABUTHENT (NB) PLAN & ELEVATION	AB6-4

SHEET NO.	DESCRIPTION	DRAWING NO.
246	BIN 1072530, RAMP TO I-481/1-481, PLAN, ELEVATION AND BRIDGE SECTION	GP7-1
247-248	BIN 1072530, EAST ABUTMENT	AB7-1 - AB7-2
249	BIN 1072571 & BIN 1072572, I-481/ROUTE 298 PLAN AND ELEVATION AND BRIDGE SECTION	GP8-1
250	BIN 1072571 & BIN 1072572, TYPICAL BRIDGE SECTION AND PROFILE	TS8-1
251	BIN 1072571, SOUTH ABUTMENT (SB) PLAN & ELEVATION	AB8-1
252	BIN 1072571, NORTH ABUTMENT (SB) PLAN & ELEVATION	AB8-2
253	BIN 1072572, SOUTH ABUTMENT (NB) PLAN & ELEVATION	AB8-3
	DIE 1015212, SCOTT ADDITION AND FLANT OF CECENATION	ADO 3
254	BIN 1072581 & BIN 1072582, I-481/TAFT ROAD, PLAN AND ELEVATION	GP9-1
255	BIN 1072581 & 1072582, TYPICAL BRIDGE SECTION AND PROFILE	TS9-1
256-257		AB9-1 & AB9-2
258-259	BIN 1072581, SOUTH ABUTMENT AND NORTH ABUTMENT (SB)	
230-233	BIN 1072582, SOUTH ABUTMENT AND NORTH ABUTMENT (NB)	AB9-3 & AB9-4
260	BIN 1072781 & BIN 1072782, I-481/TOTMAN ROAD, PLAN, ELEVATION AND BRIDGE SECTION	GP10-1
261	BIN 1072781 & BIN 1072782 TYPICAL BRIDGE SECTION AND PROFILE	TS10-1
		AB10-1 & AB10-2
262-263	BIN 1072781, EAST ABUTHENT (SB) PLAN & ELEVATION	
264	BIN 1072782, WEST ABUTWENT (NB) PLAN & ELEVATION	AB10-3
265	BIN 1072781, APPROACH SLABS	AS10-1
266	BIN 1072791 & BIN 1072792, I-481/ THOMPSON ROAD, PLAN, ELEVATION AND BRIDGE SECTION	GP11-1
267	BIN 1072791 & BIN 1072792 TYPICAL BRIDGE SECTIONS AND PROFILE	TS11-1
268	BIN 1072791, EAST & WEST ABUTMENTS (SB)	AB11-1
269	BIN 1072791, APPROACH SLAB (SB)	AS11-1
270	BIN 1093510, I-690 RAMP/ I-481SB, PLAN, ELEVATION, AND BRIDGE SECTION	GP12-1
271	BIN 1093510, WEST ABUTMENT PLAN & ELEVATION	AB12-1
272	BIN 1093520, WN LINE OVER INTERSTATE 481 SB, PLAN, ELEVATION, AND BRIDGE SECTION	GP13-1
273	BIN 1093520, WEST ABUTMENT PLAN & ELEVATION	A813-1
 		
274	BIN 1093540, I-690 EB/ I-481 NB RAMP, PLAN, ELEVATION, AND BRIDGE SECTION	GP14-1
275	BIN 1093540 TYPICAL BRIDGE SECTION AND PROFILE	TS14-1
276	BIN 1093540, WEST ABUTMENT	AB14-1
277	BIN 1093550, I-481 NB/WB CONNECTOR, PLAN, ELEVATION, AND BRIDGE SECTION	GP15-1
278	BIN 1093550, SOUTH ABUTMENT, NB PLAN & ELEVATION	A815-1
279	BIN 1093550, NORTH ABUTMENT, NB PLAN & ELEVATION	AB15-2
280	BIN 1093561 & 1093562, I-481/ROUTE 290, PLAN, ELEVATION AND BRIDGE SECTION	GP16-1
281	BIN 1093561 & 1093562 TYPICAL BRIDGE SECTION AND PROFILE	TS16-1
282	BIN 1093561, SOUTH ABUTMENT (SB) PLAN & ELEVATION	AB16-1
283	BIN 1093562, SOUTH ABUTMENT (NB) PLAN & ELEVATION	AB16-2
284-287	BIN 1093571 & BIN 1093572, I-481/CSX RAILROAD YARD, PLAN & ELEVATION	GP17-1 - GP17-4
238	BIN 1093571 AND BIN 1093572, TYPICAL BRIDGE SECTION AND PROFILES	TS17-1
289-293	BIN 1093571 AND BIN 1093672, DRAINAGE DETAILS	DD17-1 - 0017-5
294-296	BIN 1093571 AND BIN 1093672, SCUPPER EXTENSIONS	DD17-6 - DD17-8
297-314	BIN 1093571, PIERS 1-14, (SB)	PR17-15 - PR17-185
315	BIN 1093572, SOUTH ABUTMENT (NB)	AB17-1
	BIN 1093572, PIERS 1-14 (NB)	PR17-1N - PR17-14N
316-329		
316-329 330-331	BIN 1093571 AND 1093572, PARAPET REPAIR DETAILS	PW17-1 & PW17-2
	BIN 1093571 AND 1093572, PARAPET REPAIR DETAILS BIN 1093572, BRIDGE DECK REPAIRS	PW17-1 & PW17-2 DR17-1

REG. NO. STATE	CONTRAC			SHEET NO.	TOTAL SHEETS	
1 N.Y.		D259214		l	5	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)						L
VARIOUS BRIDGES ON INTERSTATE 481						
TOWNS OF	DEWITT	AND CICERO		-		
ONONDAGA COUNTY						
P.I.N. 305613 B.I.N. ALL BINS						

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

DATE SIGNATURE

INTERSTATE 481
REHABILITATION PROJECT

INDEX



STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

FILENAME 305613AA.L2A DRAWING NO. IDX-1 DATE 10/02

	INDEX (CONTINUED)	
SHEET NO.	DESCRIPTION	DRAWING N
333	BIN 1093671 & 1093672, I-481/KIRKYILLE ROAD, PLAN, ELEVATION AND BRIDGE SECTION	GP18-1
334	BIN 1093671 & BIN 1093672 TYPICAL BRIDGE SECTION AND PROFILE	TS18-1
335-336	BIN 1093671, SOUTH ABUTMENT (SB) PLAN, ELEVATION AND SECTIONS	AB18-1 - AB18
337	BIN 1093671, NORTH ABUTMENT (SB) PLAN & ELEVATION	AB18-3
338-339	BIN 1093672, SOUTH ABUTMENT (NB) PLAN, ELEVATION AND SECTIONS	AB18-4 - AB1
340	BIN 1093672, NORTH ABUTMENT (NB) PLAN & ELEVATION	AB18-6
341-342	BIN 1002131, BIN 1002132 & BIN 1093571, MULTIROTATIONAL BEARINGS	BR-1 & BR-
343	BIN 1002131. BEARING RESTORATION DETAILS	BR-3
344	BINS 1069131 & 1069132, BEARING RESTORATION DETAILS	BR-4
345-346	BIN 1069141 & BIN 1069142, BEARING RESTORATION DETAIL	BR-5 & BR-
347	BIN 1072530, BEARING RESTORATION DETAILS	BR-7
348	BIN 1072791 AND BIN 1072792 BEARING RESTORATION DETAILS	BR-8
349	BIN 1093550, BEARING RESTORATION DETAILS	BR-9
350-351	BINS 1093751 & 1093572, BEARING RESTORATION DETAILS	BR-10 & BR
352	BIN 1072781 BEARING RESTORATION DETAILS	BR-12
	RAILING DETAILS	
353-355	BIN 1002131 & BIN 1002132, RAILING DETAILS	RD-1 - RD-3
356-358	BIN 1069141 & BIN 1069142, RAILING DETAILS	RD-4 - RD-6
359-360	RAILING DETAILS	RD-7 - RD-8
	BRIDGE JOINTS	JT-1 - JT-4
361-364	BRIDGE JOINT TABLE	JD-1
365	COMPRESSION SEAL JOINT DETAIL (ALL BRIDGES)	JD-2 - JD-6
366-370	BIN 1002131, JOINT DETAILS	JD-7 - JD-1
371-375	BIN 1002132, JOINT DETAILS	
376-377	BIN 1031711 & BIN 1031712, JOINT DETAILS	JD-12 - JD- JD-14 - JD-
378-383	BIN 1064650, JOINT DETAILS BIN 1069131, JOINT DETAILS	JD-20 + JD-
384-385		JD-22 + JD-
386-387	BIN 1069132, JOINT DETAILS	JD-24 - JD-
388-392	BIN 1069141 & BIN 1069142	JD-29 + JD-
393-394	BIN 1072530, JOINT DETAILS	JD-31 + JD-
395-396	BIN 1072571, JOINT DETAILS	JD-33 + JD-
397-398	BIN 1072572, JOINT DETAILS	
399-400	BIN 1072581, JOINT DETAILS	JD-35 + JD- JD-37 + JD-
401-402	BIN 1072582, JOINT DETAILS	JD-39 + JD-
403-404	BIN 1072781, JOINT DETAILS	JD-41 + JD-
405-406	BIN 1072782, JOINT DETAILS	JD-43 + JD-
407-408	BIN 1072792, JOINT DETAILS	JD-45 + JD-
409-410	BIN 1093510, JOINT DETAILS	JD-47
411	BIN 1072791, BIN 1093520 & BIN 1093540, JOINT DETAILS	JD-48 + JD-
412-413	BIN 1093550, JOINT DETAILS	JD-50 - JD-
414-416 417-420	BIN 1093561 & BIN 1093562, JOINT DETAILS BIN 1093571 & BIN 1093572, JOINT DETAILS	JD-53 - JD-5
421-423	BIN 1093671 & BIN 1093672, JOINT DETAILS	JF-57 - JD-5
421-423	DIA 1033011 & DIA 1033012, DOIN: DETAILS	
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HEET	INDEX (CONTINUED)			
HEET NO.	DESCRIPTION	DRAWING NO.		
424	VARIOUS BRIDGES - ROAD PLATE DETAIL	AA - RP1		
105 105	BAR LIST			
425-428 429	ALL BINS (BRIDGE JOINT SYSTEMS) BIN 1002131 & 1002132	8L-1 - 8L-4 8L-5		
430	BIN 1093571	BL-6		
431	STRUCTURAL SLAB OVERLAY & ASPHALT PAVEMENT REPAIR DETAILS	MS-1		
432	MISC. TABLE	MT-1		
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FED ROAD REG. NO.	STATE		SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	6	432
BRIDGE RE	HABILI	ATION PROJECT (ELEMENT SPEC	IFIC)	L
VARIOUS BRIDGE ON INTERSTATE 481				
TOWN OF	DEWITT	AND CICERO		
ONONDAGA	COUNTY			
P.I.N. 305	513	B.I.N. VARIOUS	· · - · · · · · · · · · · · · · · · · ·	

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SIGNATURE

DATE

INTERSTATE 481
REHABILITATION PROJECT

INDEX



STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

FILENAME REGION DATE DRAWING NO. 305613AAL2A 3 10/02 IDX-2

	•	ESTIMAT	E OF	QUANT	ITIES	BY ST	RUCTU	RE								
ITEM *	DESCRIPTION	UNIT	1072	2781	1072	2782	107	2791	107	2792	109	3510	1093	5520	1093	3540
		-	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL
203.02 M	UNCLASSIFIED EXCAVATION & DISPOSAL	CM	2				2									
203.03 M	EMBANKMENT IN PLACE	СМ														
203.07 M	SELECT GRANULAR FILL	CM														
203.1770 M	CLEAN EXISTING PIPE CULVERT	и														
	CLEANING CLOSED DRAINAGE SYSTEMS	и														
203.18 M	CLEAN DRAINAGE STRUCTURES AND MANHOLES	EA				-										
203.19 M	SELECT STRUCTURE FILL	CM		<u> </u>												
203.21 M		и	 	1	1	-						1				
15203.51 M	GRADING, CLEANING AND RESHAPING EXISTING DITCHES	CM	+=	-		 				 						
206.01 M	STRUCTURE EXCAVATION	CM		-	-					 						
206.02 M	TRENCH AND CULVERT EXCAVATION		 			-						-				
207.10 M	GEOTEXTILE BEDDING	SM	-		-						-	-				
210,5433 M	REMOVAL AND DISPOSAL OF ASBESTOS CONTAINING CAULKING (BV 12)	LS	+=		-					-	-	-				
210.9913 M	REMOVAL AND DISPOSAL OF MISC. ASBESTOS CONTAINING MATERIAL BY-12	LS	┼=-								-		NEC			
304.15 M	SUBBASE COURSE, OPTIONAL TYPE	Chi														
402.128201 M	12.5mm F2 SUPERPAYE HMA, 80 SERIES COMPACTION	ur	3			ļ	3			-	3					
402.128211 M	PLANT PRODUCTION QUALITY ADJUSTMENT TO ITEM 402.128201M	dn an	1 1			<u> </u>	1				1					
402.258901 M	25mm F9 SUPERPAYE HMA, 80 SERIES COMPACTION	nı		ļ		ļ					4	ļ				
402.258911 M	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402,258901M	an	<u> </u>			1					1					
402,378901 M	37.5mm, F9 SUPERPAYE HMA, 80 SERIES COMPACTION	ııı	<u> </u>													
402.378911 M	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.378901M	GU							-						-	
407.01 M	TACK COAT	L	5				5				9					
490,30 M	MISC. COLD MILLING OF BITUMINUS CONCRETE	SM									25					
502.92 M	SEALING TRAKSVERSE JOINTS	М											21		21	
08520.5014 M	SAWCUT, ASPH, COHC/ASPH, OVERLAY- PCC PAVE	и	74				48				17					
552.13 M	TEMPORARY STEEL SHEETING	SM														
555.0105 M	CONCRETE FOR STRUCTURES - CLASS A	CM	11	1												
555.09 M	CONCRETE FOR STRUCTURES, CLASS HP	CM	3		1				1		1					
	STRUCTURAL CRACK SEALING	LM	6	 	<u> </u>	†										
18555.81 M	UNCOATED BAR REINFORCEMENT FOR CONCRETE STRUCTURES	KG	1	 		-				-						
556.0201 M			170		70	 			74	-	52			-		
556.0202 M	EPOXY COATED REBAR FOR STRUCTURES	KG	70		72				71		52					
558.01 M	TRANSVERSE SANCUT GROOVING OF STR SLAB SURF	SM	18		-	-	17			 		-				
18559.1696 M	PROTECTIVE SEALER STRUCTURAL CONCRETE	FIE			-					 						
18559.1896 M	PROT SEAL STR. CONC NEW BRIDGE DECK OVERLAYS	SM	 									 				
564.0501 M	STRUCTURAL STEEL	LS	 ==	 							-	-				
565.1522 M	TYPE MLR. EXPANSION BEARING (1001 TO 2000 KN)	EA	-	 		 					-	-				
565.1722 M	TYPE M.R. FIXED BEARING (1001 TO 2000 KN)	EA	ļ <u></u>													
15565.4302 M	BRIDGE BEARING RESTORATION	EA	10	ļ			10		10					ļ		
566.01 M	MODULAR EXPANSION JOINT SYSTEM, ONE-CELL	М												ļ		
566.02 M	MODULAR EXPANSION JOINT SYSTEM TWO-CELL	N N		<u> </u>	<u> </u>					,			<u>-</u>			
567.31 M	ARM JNT SYS WI COMPRESSION SEAL - TY A1	М	13		13				14							
567.32 M	ARM JHT SYS WI COMPRESSION SEAL - TY A2	М														
567.35 M	ARM JNT SYS WI COMPRESSION SEAL - TY A5	빏	13		13				14							
567.36 M	ARM JNT SYS WI COMPRESSION SEAL - TY AG	N														
18567.46 M	ELASTOMERIC CONCRETE FOR BRIDGE JOINT SYSTEMS	M			26				26							
16567.640001 M	REPLACE COMPRESSION SEAL IN EXISTING BRIDGE JOINTS	и					28				18		10		10	
568.32 M	CEMENT MORTAR PADS	EA										- 1				
568.50 M	STEEL BRIDGE RAILING (2 RAIL)	И			 											
570.090001 M	ENVIRONMENTAL GROUND PROTECTION	LS	1													
570.090002 M	ENVIRONMENTAL GROUND PROTECTION	LS	1							T	T					
570.090002 M	ENVIRONMENTAL GROUND PROTECTION	LS	1	 							T					
310:030003 M	ENTINOTIMENTAL UNOUND TRUTEVITOR	1-5	1		 	†	 									T
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REG. NO.	STATE			- s	HEET NO.	TOTAL
1 .	N.Y.	0259	9214		186	432
BRIDGE RE	HABILIT	TATION PROJECT	ELEMENT S	PECIF	IC)	
VARIOUS B	RIDGES	ON INTERSTATE	481			
TOWNS OF	DEWITT	AND CICERO				
ONONDAGA	COUNTY	1				
P.I.N. 3056	613		B.I.N. VARIO	US		

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SHEET 7 OF 12

ESTIMATE OF QUANTITIES



STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION

DATE DRAWING NO. 10/02 QE-3A FILENAME 305613.L1A

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A CONTRACTOR	
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TELL			ESTI	MATE	OF QUA	ANTITIE	S BY	STRUC	TURE			*************					
STANDSPORT STA	ITEM *	DESCRIPTION	UNIT	1072	2781	1072782		1072791		1072792		109	3510	1093520		1093	3540
\$10.1000.00 MORROWERUM AUTREMP FROTECTION			1	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL
\$10.1000.00 MORROWERUM AUTREMP FROTECTION	570,090004 M	ENVIRONMENTAL GROUND PROTECTION	LS	storecome												-	
\$751,00000 M. POROMERITA MATERIAN PROTECTION STRICTURE M. PORTON M.			1		1	-				*********						1	
SETURNEY COLLIED PARTING OF AMER STRUCTURAL STEEL PLANE SEPTION	T		1														
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INSTRUCTION CONTINUED CLARING OF PART REMAINS ASSET DIRECTIONAL NESTE DIRECTIO			1	-		-											
STALLOOD	The second secon		1		1	-						Californiane					
STADDSON TREATMENT AND DESCRIAGE OF PART REMOVAL MISTE			1							-				-			
### PATRAMON WE TREATMENT AND DISPOSEL OF PANN FRENOVAL WASTE OF CHAPTER OF THE PANN SYSTEM SHOP APPLED SI			1		1	Countrigue											
### PATRONON W. TREATMENT AND DISPOSAL OF PANNE REMOVAL WASTE \$17,010000 W. STRUCTURAL STEEL PAINT SYSTEM SING APPLIED \$1,010000 W. STRUCTURAL STEEL STEEL STEEL SYSTEM \$1,010000 W. STRUCTURAL STEEL PAINT SYSTEM SING APPLIED \$1,010000 W. STRUCTURAL STEEL SAS D ON E. S.			1					Control		crystallinosite		Angentures .					
\$172,010000 M STRUCTURAL STEEL PAUT STYTEMS SIDE APPLIED \$1			СМ							CERTAIN		Charles					
\$172,000002 U STRUCTURAL STEEL PARTY STSTEAL BROW APPLED \$18,000001 U OFFRAY CORRETE - CARSE E \$21			The second lives and the second			-						-					
STREADON OPERANT CORRETE - CLASS E SJ			1		1			www.comm		CONTRACTOR		Cartalina					
STRACEGOOD W OVERALY CONCRETE - CLASS E SU			1							rustrous.		*********					
STRADSOOR			SM	Contractor		4 PPL CONTRACTOR				CONTROL							
STRACKOOOD N OVERLAY CONCRETE - CLASS E SU	7		1	Name and Address of the Owner, where						CORDAN TOWN		CONTRACTOR		COUNTY OF			
\$10,000005 M OVERLAY CONCRETE - CLASS E \$10,000005 M OVERLAY CONCRETE - CLASS D OR E \$10,000005 M OVERLAY CONCRETE - CLASS D OR E \$10,000000 M SLAB RECONSTRUCTION CONCRETE - CLASS D OR E \$10,000000 M SLAB RECONSTRUCTION CONCRETE - CLASS D OR E \$10,000000 M SLAB RECONSTRUCTION CONCRETE - CLASS D OR E \$10,00000 M SLAB RECONSTRUCTION CONCRETE - CLASS D OR E \$10,00000 M SLAB RECONSTRUCTION CONCRETE - CLASS D OR E \$10,00000 M SLAB RECONSTRUCTION CONCRETE - CLASS D OR E \$10,00000 M SLAB RECONSTRUCTION CONCRETE - CLASS D OR E \$10,00000 M SLAB RECONSTRUCTION CONCRETE - CLASS D OR E \$10,00000 M SLAB RECONSTRUCTION CONCRETE - CLASS D OR E \$10,0000 M SLAB RECONSTRUCTION CONCRETE - CLASS D OR E \$10,0000 M SLAB RECONSTRUCTION CONCRETE - CLASS D OR E \$10,0000 M SLAB RECONSTRUCTION CONCRETE - CLASS D OR E \$10,0000 M SLAB RECONSTRUCTION CONCRETE - CLASS D OR E \$10,0000 M SLAB RECONSTRUCTION CONCRETE - CLASS D OR E \$10,0000 M REMOVAL OF STRUCTURAL CONCRETE M SLAB REPAIRS SIA SIA SIA SIA SIA SIA SIA SIA SIA SI			1							Charlesons		Unicons					
STILADOODS M SLAB RECONSTRUCTION CONCRETE - CLASS D OR E SU			1			Married Marrie								***************************************	-		
\$78,030001 M \$1.4B RECONSTRUCTION CONCRETE - CLASS D OR E \$\$\text{SU}\$ —	The second secon		1							PROGRAMMENTO AND		CENTRAL CONTRACTOR OF THE PERSON OF THE PERS		-	THE PERSON NAMED IN COLUMN 1	0.55453	-
\$18,000002 M \$1.4B RECONSTRUCTION CONCRETE - CLASS D OR E \$1.9	-		1	Same of the last o						6#870/15H209		**********		Consumption (Consumption)	·		
\$18,030003 M SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	LOVE OF THE PARTY		1			-											
\$18,030004 M \$1.40 RECONSTRUCTION CONCRETE - CLASS D OR E \$5M	The same of the sa		-	-		- Accessions	-	********		-		WOOD OF THE PERSON				annual contract of the contrac	-
\$78,030005 M \$LAB RECONSTRUCTION CONCRETE - CLASS D OR E \$M — — — — — — — — — — — — — — — — — —				**********	1			escences .				SEPARATE AND ADDRESS OF THE PARTY OF THE PAR		CONTRACTO			MANUAL PROPERTY.
\$78.030000 M \$LAB RECONSTRUCTION CONCRETE - CLASS D OR E \$M	Manager and American		1			-				COMPOSITION 1		Ghille-Jenny		Constitution			
STRUCTURAL LIFTING OPERATIONS - TYPE B			1	18	 			-				Gallander		- Carlotter		-	ALL PROPERTY AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADD
STRUCTURAL LIFTING OFFERATIONS - TYPE A	A THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.		1	1 10				47		-		-					
580.01 M REMOVAL OF STRUCTURAL CONCRETE CM 3 3 3 - 3 1 - 1 1 1 2 582.05 M REMOVE STRUCTURAL CONCRETE WITH CLASS A CONCRETE CM 1 1 1 1 1 - 1 1 1 2 582.07 M REMOVE STRUCTURAL CONCRETE WITH CLASS A CONCRETE CM 1 1 1 1 1 - 1 1 1 2 582.07 M REMOVE STRUCTURAL CONCRETE WITH VERTICAL OVERHEAD PATCH MATERIAL SM	STATE OF THE PARTY			26	 	8		1		9		-			***************************************		
582.05 M REMOVE STRUCTURAL CONCRETE WITH CLASS A CONCRETE 582.07 M REMOVE STRUCTURAL CONCRETE AND REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL 5M — — — — — — — — — — — — — — — — — — —	Market Service Service Control of the Service			1	l							-		********			
16584.13 M REMOVE STRUCTURAL CONCRETE AND REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL SM	AND DESCRIPTION OF THE PARTY OF		-	1		4						-		4	***************************************		
16584.13 M RAPID SETTING CONCRETE FOR BRIDGE AND APPROACH SLAB REPAIRS	AND DESCRIPTION OF THE PERSON		Statement of the last of the l	1		1		1						1		-	electric constants
SESTION STRUCTURAL LIFTING OPERATIONS - TYPE A	and the second s			Cardon Company		Organization of the last of th		Commence							eMilhorine uncanyar		No. of Concession, Name of Street, or other Designation of Concession, Name of Street, or other Designation, Name of Street, Original Property and Concession, Original Property and Concession, Name of Street, Original Property and Concession, Name of Street, Original Property and Concession, Original
585.02 M STRUCTURAL LIFTING OPERATIONS - TYPE B EA —<	The second secon		-	10				40		40					***************************************		Table 100 Control Control
585.03 M STRUCTURAL LIFTING OPERATIONS TYPE C EA — <td></td> <td></td> <td>1</td> <td>10</td> <td>-</td> <td></td> <td>· · ·</td> <td>10</td> <td></td> <td>10</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>PROVINCE AND REPORT</td>			1	10	-		· · ·	10		10							PROVINCE AND REPORT
586.01 M DRILL AND GROUT BOLTS, OR REINFORCING BARS MMI 6000 6000 — 6600 4200 — <td></td> <td></td> <td>The state of the s</td> <td></td> <td>-</td> <td></td> <td>POUR MARKET LINE</td>			The state of the s		-												POUR MARKET LINE
17586.18M DRILLING HOLES IN EXISTING SUBSTRUCTURE M —			1	5000		6000				6600		4600			Miletania Chicologica Chicago		CE o Tributhatour
16586.200125 M DRILL AND GROUT ANCHOR BOLTS AND REBAR IN CONCRETE EA	THE RESIDENCE AND RESIDENCE AND STREET, AN		The same of the sa	6000	-	6000		Calculation of the Calculation o		6600		4200		CONTRACTOR			PLEORINAMIONS
16586.200216 M DRILL AND GROUT ANCHOR BOLTS AND REBAR IN CONCRETE EA — <			-		-												************
587.01 M BRIDGE RAILING REMOVAL AND DISPOSAL M —	SALES AND PROPERTY OF THE PARTY		The street or a second name of					Control of the last of the las				CONTRACTOR OF THE PARTY OF THE					Nindelessons and a
589,520001 M REMOVAL OF EXISTING STEEL EA —	William College of the College of th		-									- AREA TO SERVICE AND ADDRESS OF THE PARTY O					-
589.520002 M REMOVAL OF EXISTING STEEL EA —			-	†			-					-		COMMUNICATION OF THE PARTY OF T		Constitute	and the same of th
589.520003 M REMOVAL OF EXISTING STEEL EA —	CANADA CONTRACTOR CONTRACTOR CONTRACTOR		The state of the s									acidiania (Como acono		COLUMN TO STREET			
589.520004 M REMOVAL OF EXISTING STEEL EA —	COLUMN TO SERVICE AND ASSESSMENT OF SERVICE					-									VI CONTRACTOR CONTRACTOR		-
589.520005 M REMOVAL OF EXISTING STEEL EA —	Control of the Contro		7	-	 												
590.01M VERTICAL ADJUSTMENT OF BRIDGE DRAINAGE DEVICES EA —	THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO I		The state of the s	-						-	-						Prisonersocial
603,6001 M REINFORCED CONCRETE PIPE CLASS III, 300 mm M	estands record fact, watch darks appearing the property of the		The state of the s									4333200	$\overline{}$	-			MARKET CHARLES
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REG. NO.	STATE	DOFOCA A	NO.	SHEETS
1	N.Y.	D259214	187	432
BRIDGE RE	HABILIT	ATION PROJECT CELEMENT SPE	CIFIC)	
VARIOUS E	RIDGES	ON INTERSTATE 481		
TOWNS OF	DEWITT	AND CICERO		
ONONDAGA	COUNTY		-	
P.I.N. 305	613	B.I.N. VARIOUS		

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AS BUILT REVISIONS

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DATE

SHEET 8 OF 12
ESTIMATE OF QUANTITIES



STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

FILENAME REGION DATE DRAWING NO. 305613.11A 3 10/02 QE-38

1150		T	ESTI	MATE (OF QU/	ANTITIE	ES BY	STRUC	TURE					The design and the second			
SOS,001 M ADDERDRAIN FILTER TYPE 1 CM	ITEM *	DESCRIPTION	UNIT					107		1072	2792	109	1093510		1093520		3540
COST-1702 M OPT. UNGERORAIN PIPE 150 mm #	 '			EST.	FINAL.	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	. FINAL	EST.	FINAL	EST.	FINAL
CORPUCATED BRAN CUIDE PAILING TRANSITION ASSEMBLY, TWO RAIL, STEEL BRIDGE PAILING EA										<u></u>							
1666.80 M TRANSITION BRIDGE RAILING TO BOX BEAM GUIDE RAIL 609.15 M RESETTING EXISTING CURB M				 ==		 		 			<u> </u>					T_	
603.15 M RESETTING EXISTING CURB				 .		-		 		 _	 '						
STABLISH TURE SM					+	+=-		-	+		 '			 	<u> </u>		
612-0205 M CLASS II TYPE B EROSION CONTROL MATERIAL SJU				1	 	 	+	+	+	 	 '		+		 	 	1
OB615.0402 M TREE AND VEGETATION BARRIER					 	1	+	+	1	 = -		 	 		 		1
\$20.03 M STONE FILLING QLIGHT) \$20.03 M SLAVEY AND STAKEDUT \$25.01 M SLAVEY AND STAKEDUT \$25.03 M CONCRETE CYLINGER CURING BOX \$25.0702 M ENGINEER'S OFFICE TYPE C \$25.0702 M ENGINEER'S OFFICE TYPE C \$25.0702 M FURN PORTABLE CELLULAR TELEPHONE EQUIP. \$25.00 M FURN PORTABLE CELLULAR TELEPHONE EQUIP. \$25.00 M FURN PORTABLE CELLULAR TELEPHONE EQUIP. \$25.00 M FURN SOURCEULE \$25.00 M MICRO COMPUTER SYSTEM \$25.00 M M MICRO COMPUTER SYSTEM \$25.00 M M M M M M M M M M M M M M M M M M			1		 	1	+	+==-	+	1	 		+		 	 '	
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S37.03 M CONCRETE CYLINDER CURING BOX			7			1	 		1		 	 	 		 	1	
STA.0702 M ENGINEER'S OFFICE TYPE C MMTH	637.03 M	CONCRETE CYLINDER CURING BOX	7			1						T	1		 	1	
10637.2101 M FURN PORTABLE CELLULAR TELEPHONE EQUIP. LS	637.0702 M		MINIM									†	1			十三十	
15637.61 M CPM SCHEDULE 15637.51 M DIGITAL CAMERA SYSTEM 1.5										***************************************							
15637.51 M DIGITAL CAMERA SYSTEM			EA	**********										Witholdstone			
15637.91 M CHAMPS MANAGEMENT SYSTEM			LS	Market and a	<u></u>	<u></u>	-		 '	draming cyclines				-			
1563T.99 M					-			-			 			Military and the second			
640.10 M WHITE PAINT REFLEC PAVEMENT STRIPES-0.38 RWR			1	-	-	***************************************		Maintenant Company			 		 /		-		
640.11 M YELLOW PAINT REFLEC PAVEMENT STRIPES-0.38 mm			1	-	 		 '	-	 			1					
14646.10 M MILLED IN AUDIBLE ROWAY DELINS GATARD) M — <		The state of the s	-	-		1	-			MARKON TO STREET			 				
23675.15M FURNISH AND PLACE STONE BALLAST SURFACING COURSE MT		The state of the s	1 1	1	 	-		-			 	1				1	
91685.0705 M WHY FOLYESTER REFLEC PAVEMENT STRIPE M — 4 — 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Succession and the second	The state of the s		CONTRACTOR OF THE PARTY OF THE			+			-		1		 	-		
91685,0706 M YEL POLYESTER REFLEC PAVEMENT STRIPE N	Commence of the Commence of th		-				1					 	 		Caracina consumuna de la consu	 	
697.02 M FIELD CHANGE ORDER LS	Parado and a second	The state of the s							-			-			·	1	
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FED ROAD	STATE	CONTRA	ICT NO.		SHEET	TOTAL
NEG. 1102	+1	D25	921/	1	NO.	SHEET
1	N.Y.	UZJ.	3214	1	188	432
BRIDGE R	EHABILITA	TION PROJECT	ELEMEN	T SPEC	IFIC)	L
VARIOUS	BRIDGES (N INTERSTATI	481			
TOWNS OF	DEWITT	AND CICERO				
ONONDAGA	COUNTY					······································
P.J.N. 305	613		B.I.N. VA	RIOUS		

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

SHEET 9 OF 12

ESTIMATE OF QUANTITIES

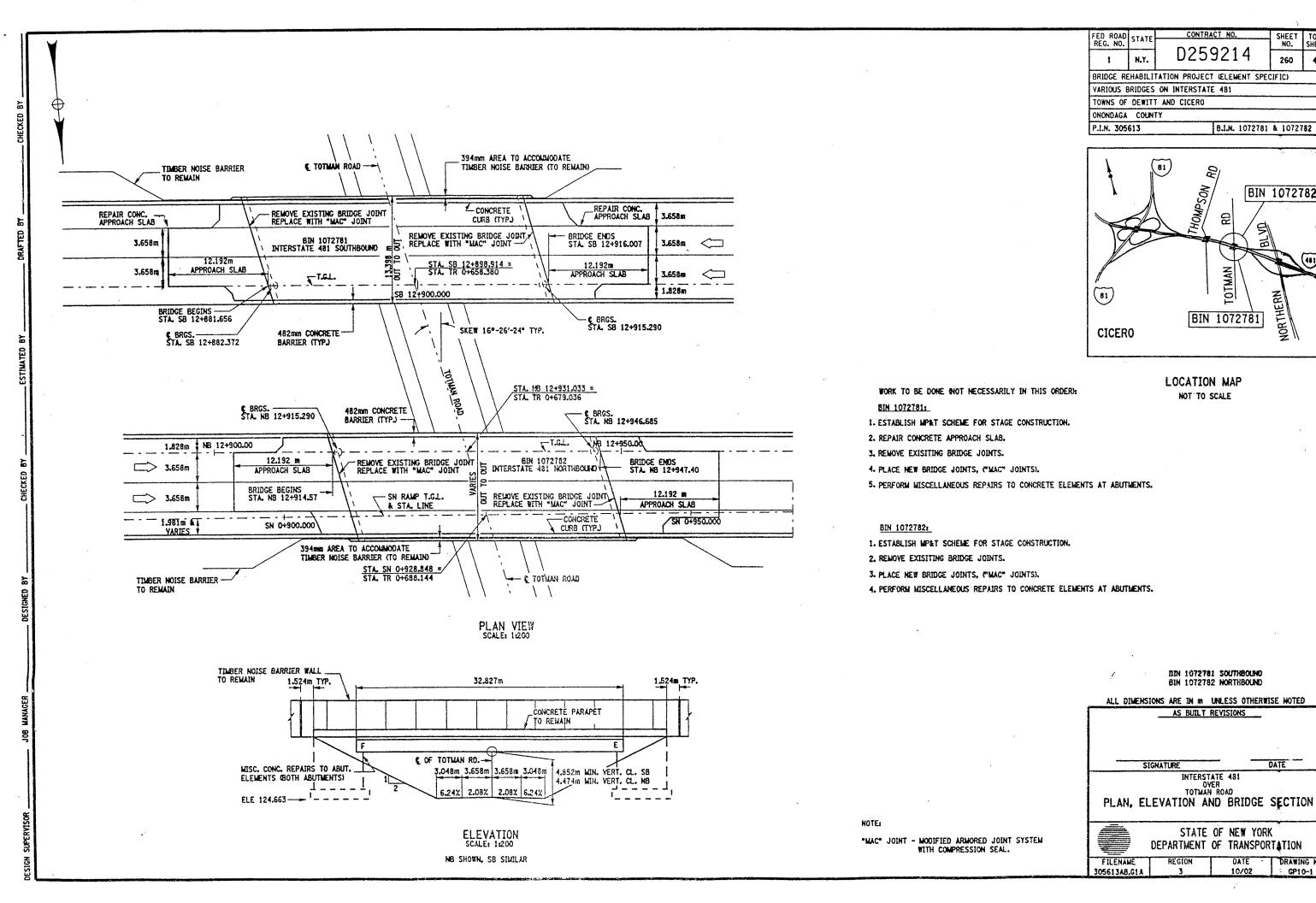


STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION

FILENAME 305613.L1A

DATE 10/02

DRAWING HO. QE-3C



SHEET TOTAL NO. SHEETS

432

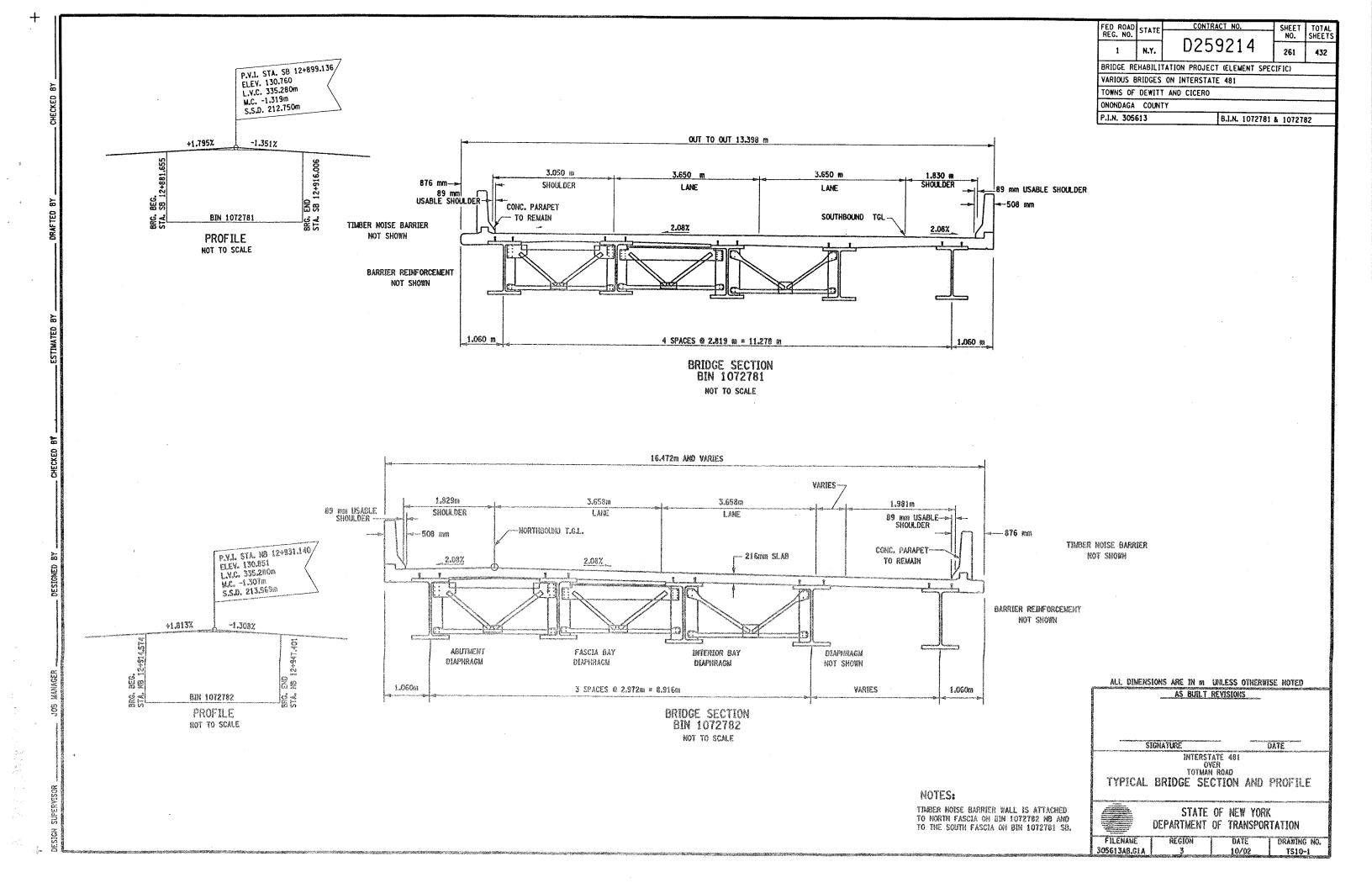
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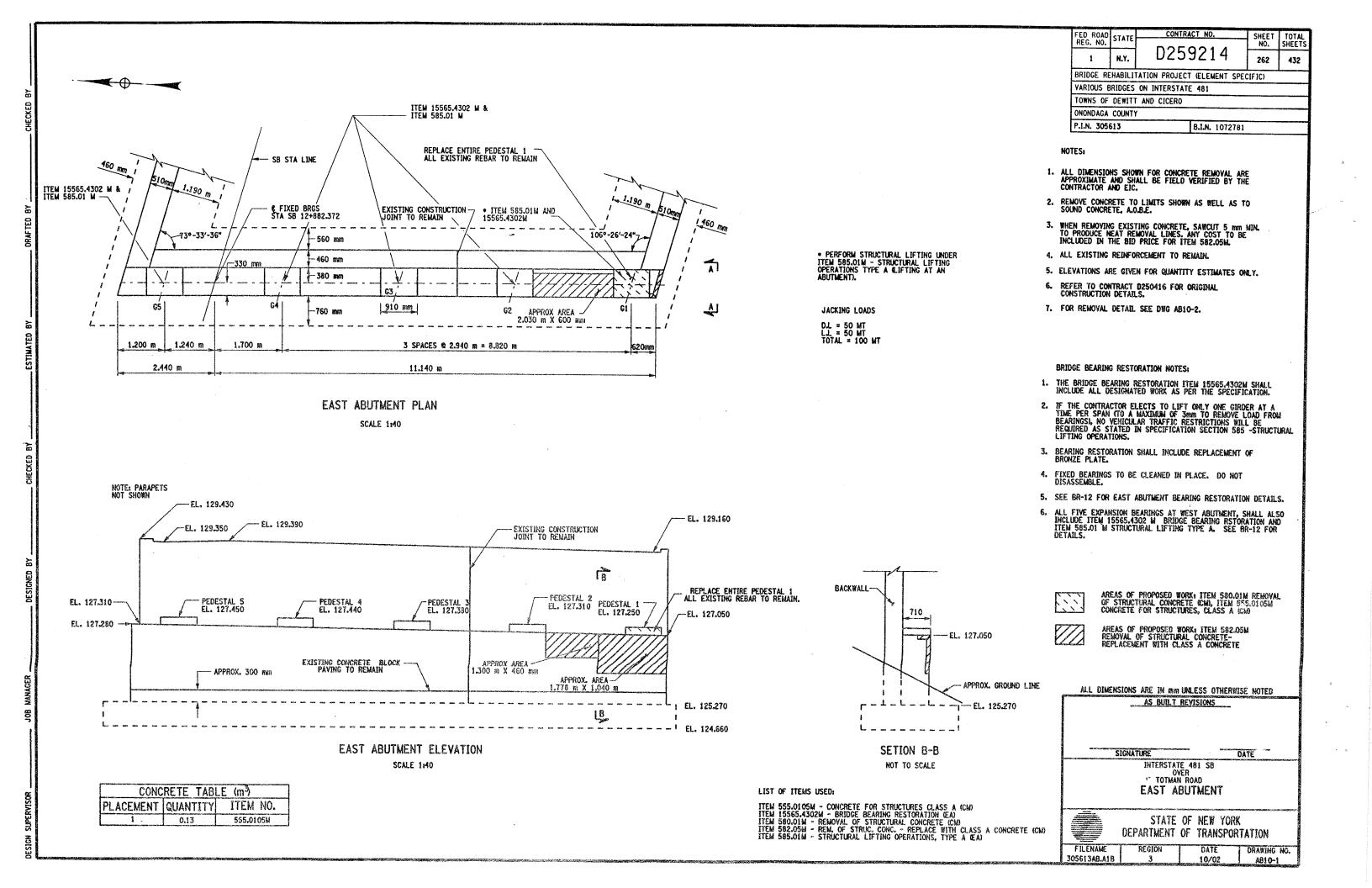
BIN 1072782

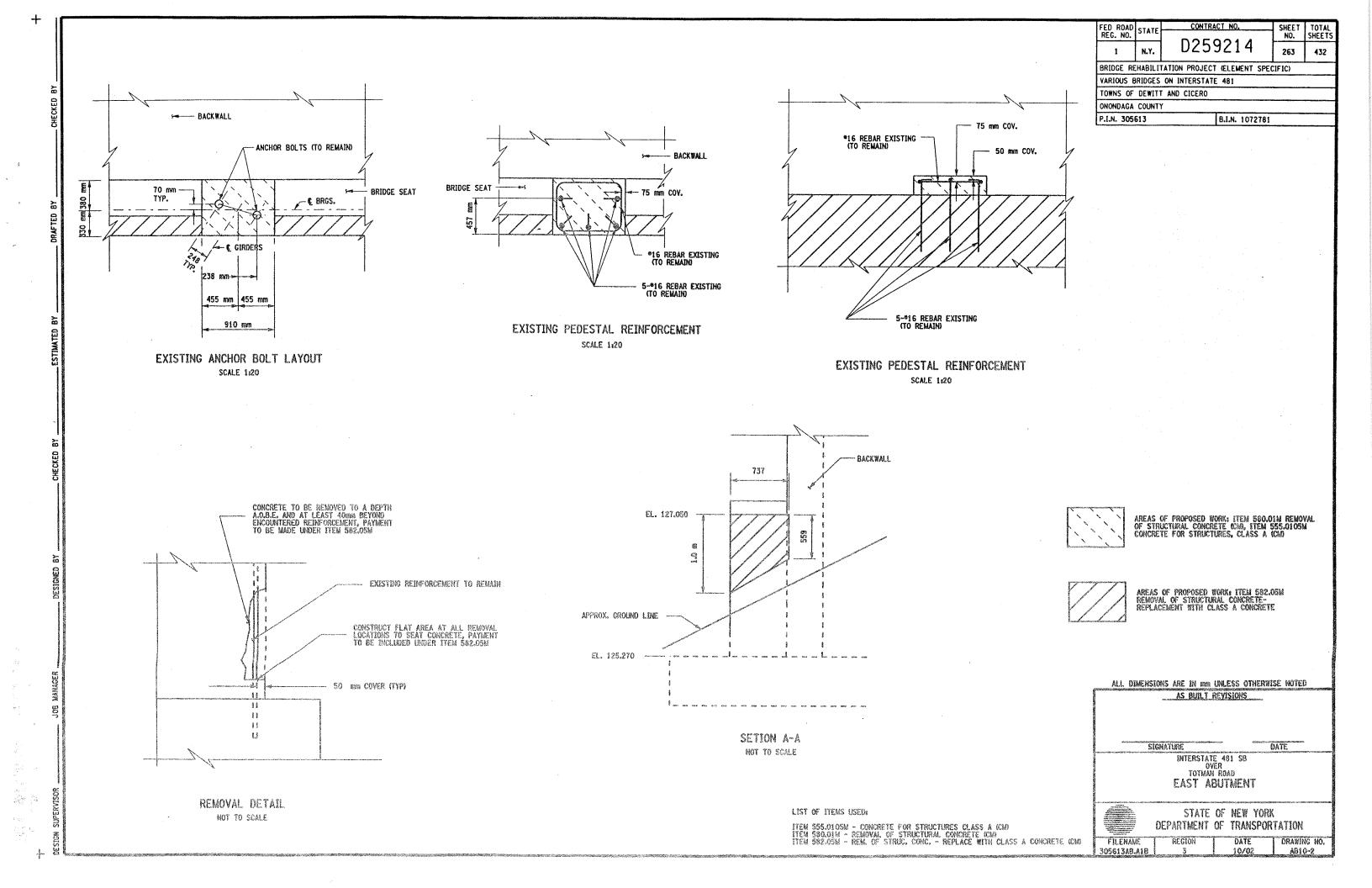
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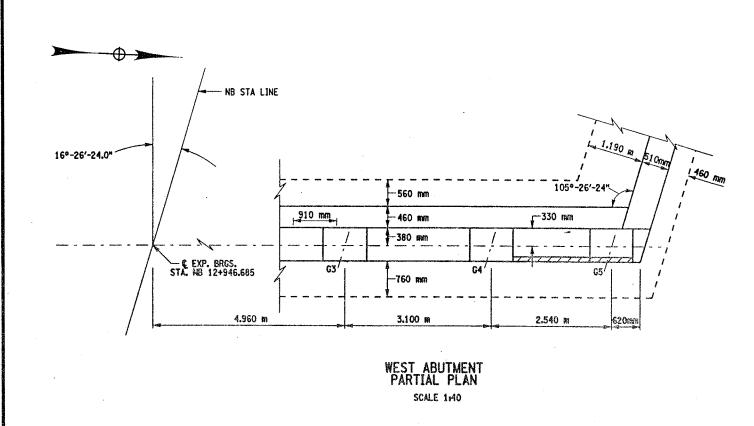
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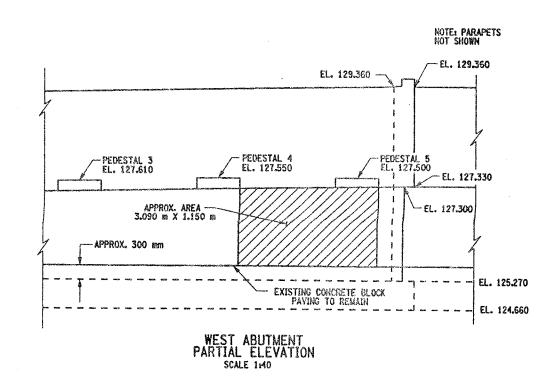
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FED ROAD REG. NO. STATE CONTRACT NO. SHEET TOTAL NO. SHEETS NO. SHEETS SHEETS NO. SHEETS SHEETS NO. SHEETS NO.

NOTES:

- 1. ALL DIMENSIONS SHOWN FOR CONCRETE REMOVAL ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND EIC.
- 2. REMOVE CONCRETE TO LIMITS SHOWN AS WELL AS TO SOUND CONCRETE, A.O.B.E.
- WHEN REMOVING EXISTING CONCRETE, SAWCUT 5 mm MIN. TO PRODUCE NEAT REMOVAL LINES, ANY COST TO BE INCLUDED IN THE BID PRICE FOR ITEM 582.05M.
- 4. ALL EXISTING REINFORCEMENT TO REMAIN.
- 5. ELEVATIONS ARE GIVEN FOR QUANTITY ESTIMATES ONLY.
- 6. REFER TO CONTRACT D250416 FOR ORIGINAL CONSTRUCTION DETAILS.
- 7. FOR REMOVAL DETAILS SEE DWG. AB10-2.



AREAS OF PROPOSED WORK: ITEM 582.05M REMOVAL OF STRUCTURAL CONCRETE-REPLACEMENT WITH CLASS A CONCRETE

LIST OF ITEMS USED:

ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACEMENT WITH CLASS A CONCRETE.

ALL DIMENSIONS ARE IN IN UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE

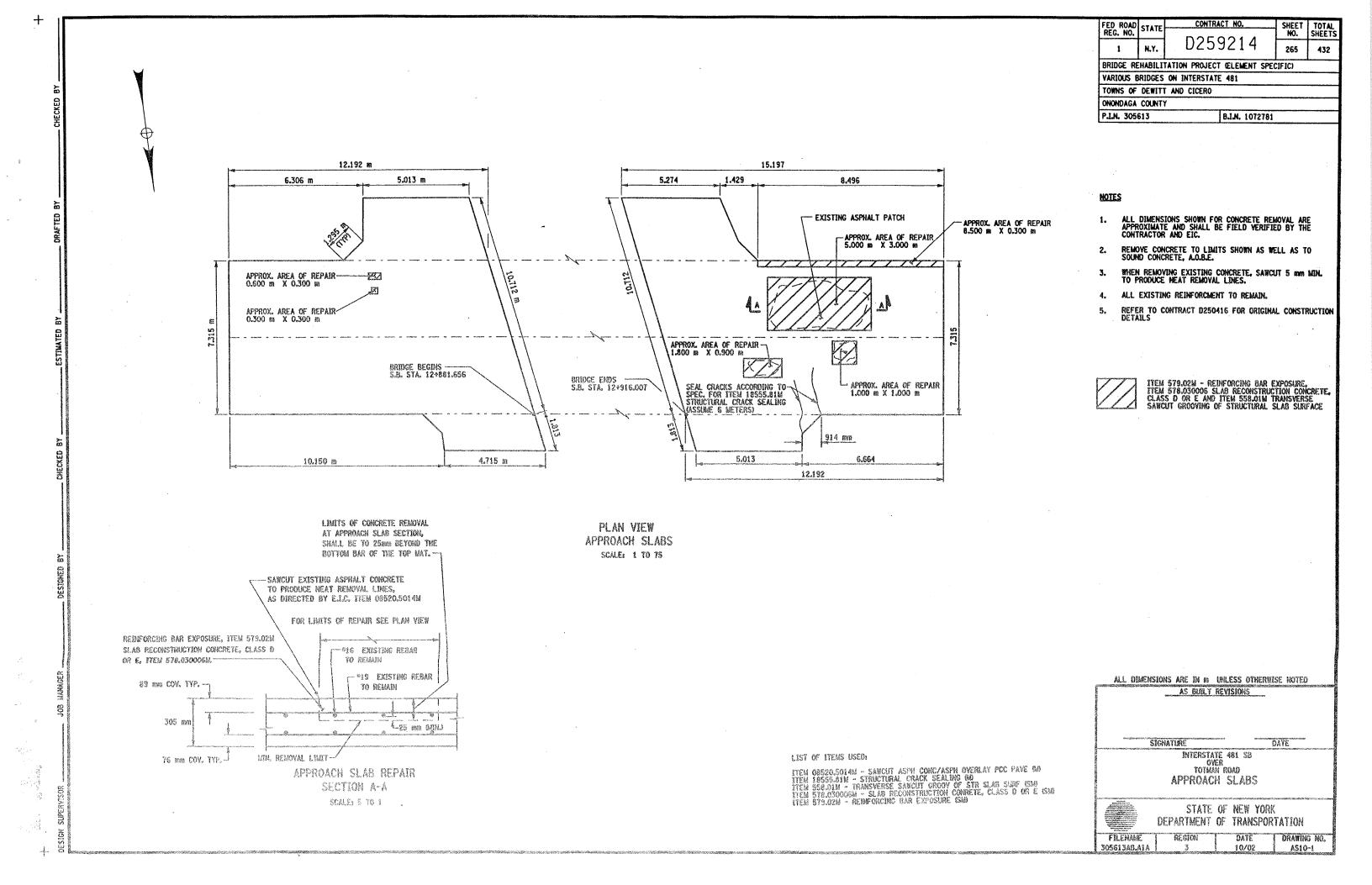
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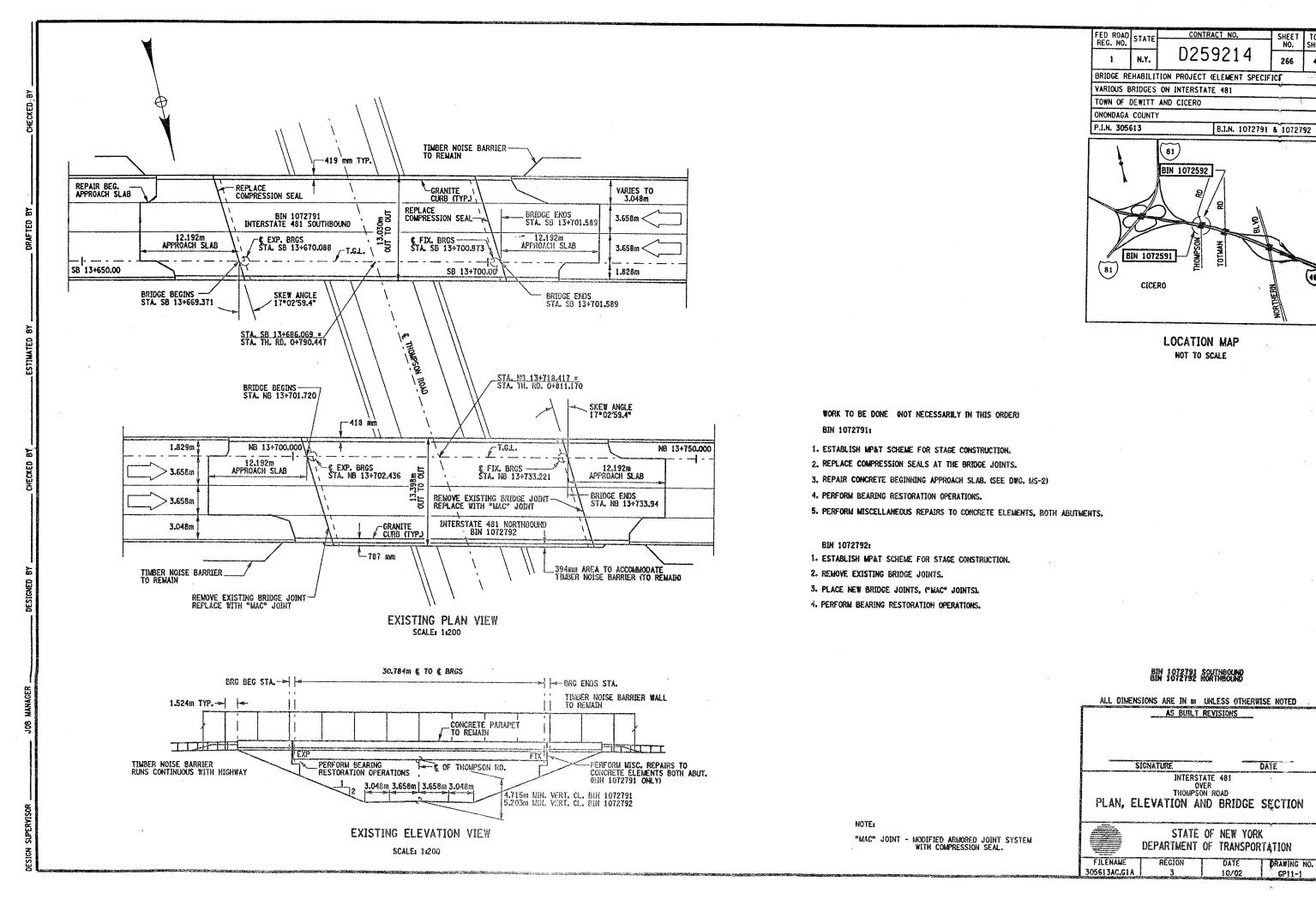
INTERSTATE 481 NB OVER
TOTMAN ROAD
WEST ABUTMENT



STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION

FILENAME REGION DATE DRAWING NO. 305613AB.A1B 3 10/02 AB10-3



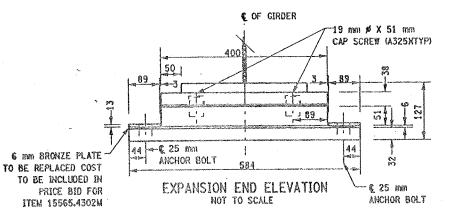


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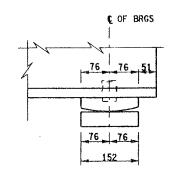
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432

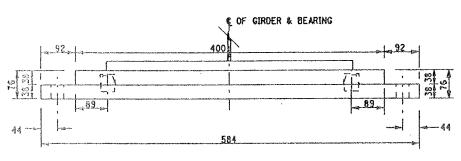
EXPANSION SIDE ELEVATION NOT TO SCALE



LOW STEEL EXPANSION BEARING DETAILS BIN 1072781 - EAST ABUTMENT

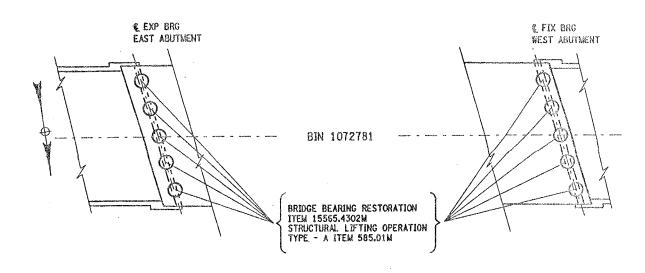


FIXED SIDE ELEVATION
NOT TO SCALE



FIXED END ELEVATION
NOT TO SCALE

LOW STEEL FIXED BEARING DETAILS BIN 1072781-WEST ABUTMENT



NOT TO SCALE

• PERFORM STRUCTURAL LIFTING UNDER ITEM 585.01M - STRUCTURAL LIFTING OPERATIONS - TYPE A (LIFTING AT AN ABUTMENT).

JACKING LOADS:

D.L. = 50 MT L.L. = 50 MT TOTAL = 1000 MT

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET	TOTAL					
REG. NO.		D2E0214	NO.	SHEETS					
1	N.Y.	D259214	352	432					
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)									
VARIOUS E	RIDGES	ON INTERSTATE 481							
TOWNS OF DEWITT AND CICERO									
ONONDAGA COUNTY									
P.I.M. 305613 B.I.N. 1072781									

BRIDGE BEARING RESTORATION NOTES:

- BRIDGE BEARING RESTORATION ITEM 15565.4302M SHALL INCLUDE ALL DESIGNATED WORK AS PER THE SPECIFICATION.
- STRUCTURAL LIFTING SHALL BE USED WITH ALL EXPANSION BEARING RESTORATION.
- 3- IF THE CONTRACTOR ELECTS TO LIFT ONLY ONE GIRDER AT A TIME PER SPAN (TO A MAXIMUM OF 3 MM TO REMOVE LOAD FROM BEARINGS), NO VEHICULAR TRAFFIC RESTRICTIONS WILL BE REQUIRED AS STATED IN SPECIFICATIONS SECTION 585-STRUCTURAL LIFTING OPERATIONS.
- BEARING RESTORATION SHALL AS A MINIMUM, AND IN ALL CASES INCLUDE REPLACEMENT OF BRONZE PLATE.
- 5. FIXED BEARING TO BE CLEANED IN PLACE. DO NOT DISASSEMBLE.

JACKING NOTES:

THE METHOD OF LIFTING SHALL BE APPROVED BY THE DEPUTY CHEIF ENGINEER (STRUCTURES), DCES, TWO WEEKS PRIOR TO THE START OF THE WORK.

NO LIFTING WILL BE ALLOWED UNTIL ALL TEMPORARY SUPPORTS ARE SECURED.

WHEN POSSIBLE, THERE WILL BE NO LIVE LOAD DURING LIFTING.

LIFTING SHALL BE CONFINED TO ONE END OF A SPAN AT ANY ONE TIME.

IF THE CONTRACTOR ELECTS TO LIFT ONLY ONE GIRDER AT A TIME PER PIER (TO A MAXIMUM OF 3 mm TO REMOVE LOAD FROM BEARING), NO VEHICULAR TRAFFIC RESTRICTIONS WILL BE REQUIRED AS STATED IN THE SPECIFICATION SECTION 585-STRUCTURAL LIFTING OPERATIONS.

ALL MATERIALS ASTM A588 EXCEPT AS NOTED

LIST OF ITEMS USED:

ITEM 15565.4302 M - BRIDGE BEARING RESTORATION (EA)
ITEM 585.01M - STRUCTURAL LIFTING OPERATIONS (TYPE A) (EA)

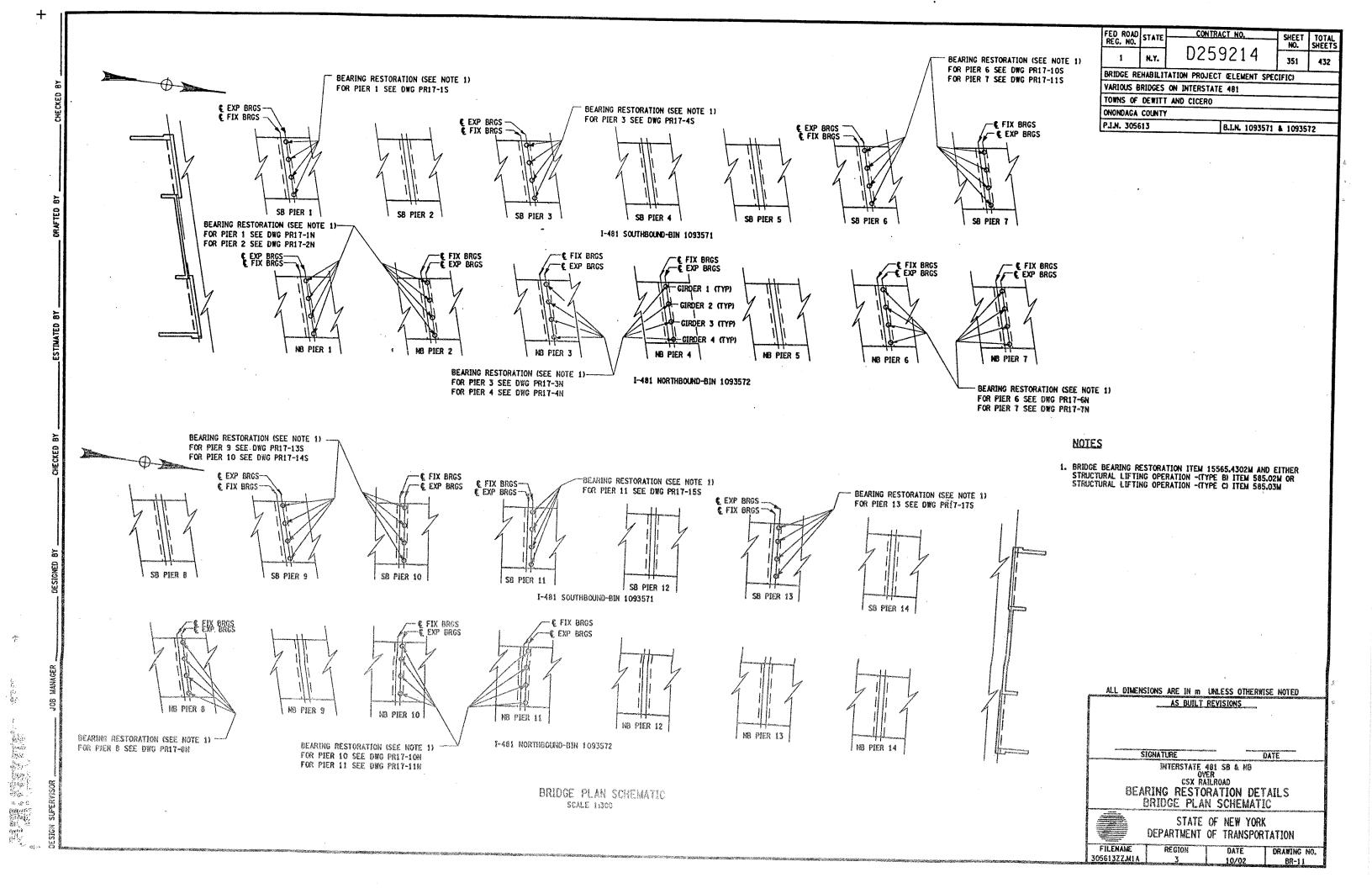
ALL DIMENSIONS ARE IN 1999 LINLESS OTHERWISE MOTED

AS BUILT REVISIONS

SIGNATURE DATE
INTERSTATE 481 SB
OVER
TOTMAN ROAD
BEARING RESTORATION DETAILS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

FILENAME REGION DATE DRAWING NO. 305613ZZ.M1A 3 10/02 BR-12



B.I.N.	JOINT	LOTHE CYCW	SPAN(S) LENGTH FOR_		ND	EXISTING JOINT	PROPOSED JOINT TYPE	CURB TO CURB DISTANCE (METERS)	FASCIA & MEDIAN LENGTH	TOTAL LENGTH	JOINT ITEM		RAWING NUM	BER FASCIA
NUMBER	LOCATION	JOINT SKEW	JOINT (METERS)	RT	AT'N LT	TYPE	JOHN THE	(SEE NOTES)	(METERS)	(METERS)	NUMBER(S)	SECT VIEW	PLAN VIEW	DETAIL
													<u> </u>	-
1072530	EAST ABUT.	0°-00′-00"	33.528	N	N	ACJ	MAC-5	15.850	.457/.457	16.764	567.35M	JD-30	JD-29	JD-30
1012330	WEST ABUT.	0°-00'-00"	37.795	N	N	ACJ	MAC-5	15.850	.457/.457	16.764	567.35M	JD-30	JD-29	JD-30
	1120, 1120,													-
1072571	SOUTH ABUT.	20°-29′-45.2"	44.196	N	N	ACJ	MAC-6	14.481	.488/.488	15.457	567.36M	JD-32	JD-31	JD-32
	NORTH ABUT.	20°-29′-45.2"		N	N ·	ACJ	MAC-1	15.456	.488/.488	16.428	567.31M	JD-32	JD-31	JD-32
4070570	COUTU ADUT	21°-09′-2.1"	44.196	N	N	ACJ	MAC-6	12.746	.490/.490	13.726	567.36M	JD-34	JD-33	JD-34
1072572	SOUTH ABUT.	21°-09′-2.1"	44,130	N	N	ACJ	MAC-1	12.746	.490/.490	13.726	567.31M	JD-34	JD-33	JD-34
	NUMIN ADUI.	21 -03 -2.1		,,,			WIFE 2		1130/1130	201120			00 00	
1072581	SOUTH ABUT.	3°59′-27.5"	37.033	N	N	ACJ	MAC-5	11.917	.458/.458	12.833	567.35M	JD-36	JD-35	JD-36
1012001	NORTH ABUT.	3°-59′-27.5"		N	N ·	ACJ	MAC-1	11.917	.458/.458	12.833	567.31M	JD-36	JD-35	JD-36
1072582	SOUTH ABUT.	3°-51′-57.9"	37.033	N	N	ACJ	MAC-5	11.915	.458/.458	12.831	567.35M	JD-38	JD-37	JD-38
	NORTH ABUT.	3°-51′-57.9"		N	N	ACJ	MAC-1	11.915	.458/.458	12.831	567.31M	JD-38	JD-37	JD-38
4070704	ELCT ADUT	4.00 00/ 04/1		N	N	ACJ	MAC-1	12.500	.530/.530	13.560	567.31M	JD-40	JD-39	JD-40
1072781	EAST ABUT.	16°-26′-24" 16°-26′-24"	33,635	N	N	ACJ	MAC-5	12.500	.530/.530	13.560	567.35M	JD-40	JD-39	JD-40
	WEST ABUT.	16-20-24	33,633	<u>'</u> '		AUU	MIXO D	121000	100071000				1	
1072782	EAST ABUT.	16°-26′-24"		N	N	ACJ.	MAC-1	13.183	.530/.530	14.243	567.31M	JD-42	JD-41	JD-42
	WEST ABUT.	16°-26′-24"	31.394	N	N	ACJ	MAC-5	12.589	.530/.530	13.649	567.35M	JD-42	JD-41	JD-42
		·												10.47
1072791	EAST ABUT.	17°-02′-59.4"	30.785	N	N	ACJ	RCS	12.566	.531/.531	13.628	16567.64M	JD-47	JD-43	JD-47
	WEST ABUT.	17°-02′-59.4"		N	N	ACJ	RCS	12.566	.531/.531	13.628	16567.64M	JD-47	JD-43	JD-47
4070700	FACT ADUT	170-02/ 50 41	30.705	NI	3,1	ACJ	MAC-5	12.566	.530/.530	14.015	567.35M	JD-44	JD-43	JD-44
1072792	EAST ABUT.	17°-02′-59.4"	30.785	N N	N	ACJ	MAC-1	12.566	.530/.530	14.015	567.31M	JD-44	JD-43	JD-44
	WEST ABUT.	11 -02 -33.4		N	- 14	100	1101	12,000	1.550					
1093510	WEST ABUT.	44°-07′-00"		N	N	ACJ/ADA	RCS	16.560	.637/.637	17.834	16567.64M	JD-46	JD-45	JD-46
	EAST ABUT.	40°-26′-00"	37.522	N	N	ADA	RADA	15.620		15.620		JD-46	JD-45	
											-		-	
					1									

INFORMATIONAL NOTES:

BIN 1072530 - NO JOINT AT PIER.

BIN 1072791 - REPLACE COMPRESSION SEALS BEG. ABUT. ŒAST), TYPE A-5 END ABUT. (WEST), TYPE A-1

FOR JOINT DETAILS REFER TO THE FOLLOWING DRAWINGS;

DWG. NO. JD-1 - MODIFIED ARMORED COMPRESSION SEAL JOINT SYSTEM. DWG. NO. JD-24 - OHE-CELL MODULAR JOINT SYSTEM. DWG. NO. JD-25 - TWO-CELL MODULAR JOINT SYSTEM.

LIST OF BRIDGE JOINT ITEMS USED:

ITEM 566.01M - MODULAR EXP. JOINT SYSTEM ONE-CELL (M)
ITEM 566.02M - MODULAR EXP. JOINT SYSTEM TWO-CELL (M)
ITEM 567.31M - MODIFIED ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A1 (M)
ITEM 567.35M - MODIFIED ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A2 (M)
ITEM 567.35M - MODIFIED ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A5 (M)
ITEM 567.35M - MODIFIED ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A6 (M)
ITEM 16567.640001M - REPLACE COMPRESSION SEAL FOR EXISTING BROCE JOINTS (M)

FED ROAD REG. NO.	STATE	CONTRA			SHEET NO.	TOTAL SHEETS
1	N.Y.	D259	3214		362	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)						
VARIOUS BRIDGES ON INTERSTATE 481						
TOWNS OF DEWITT AND CICERO						
ONONDAGA	COUNT	1				
P.I.N. 305	613		B.I.N. ALL	BINS		

LEGEND

EXISTING JOINT TYPE:

ACJ = ARMORED COMPRESSION JOINT SYSTEM

= MODULAR JOINT SYSTEM

= MODIFIED ARMORED COMPRESSION SYSTEM (NO HORIZ. ARMORING ANGLE)

= ARMORED DECK ANGLE SS = STRIP SEAL JOINT

OPEN = OPEN JOINT

PROPOSED JOINT TYPE:

MAC-1 = MOD. ARM./COMP. SEAL JT. SYS. (A-1) MAC-2 = MOD. ARM./COMP. SEAL JT. SYS. (A-2) MAC-5 = MOD. ARM./COMP. SEAL JT. SYS. (A-5) MAC-6 = MOD. ARM./COMP. SEAL JT. SYS. (A-6)

RCS = REPLACE EXISTING COMPRESSION SEAL

RADA = REMOVE ARMOR DECK ANGLE

MOD-1 = MODULAR JT. SYS. (ONE-CELL) MOD-2 = MODULAR JT. SYS. (TWO-CELL)

JOINT BEND LOCATION:

N = NO BENDS CRB = CURB LINE PAV'T = PAVEMENT

GENERAL NOTES:

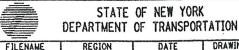
- ALL MEASUREMENTS SHALL BE FIELD VERIFIED.
- CURB TO CURB LENGTHS ARE MEASURED ALONG & OF JOINT.
- MULTIPLE DIMENSIONS ARE SHOWN LOOKING UP-STATION, LEFT TO RIGHT.
- ALL DIMENSIONS ARE SHOWN IN METERS.

 ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED
 AS BUILT REVISIONS
1
SIGNATURE DATE
INTERSTATE 481 VARIOUS BRIDGES

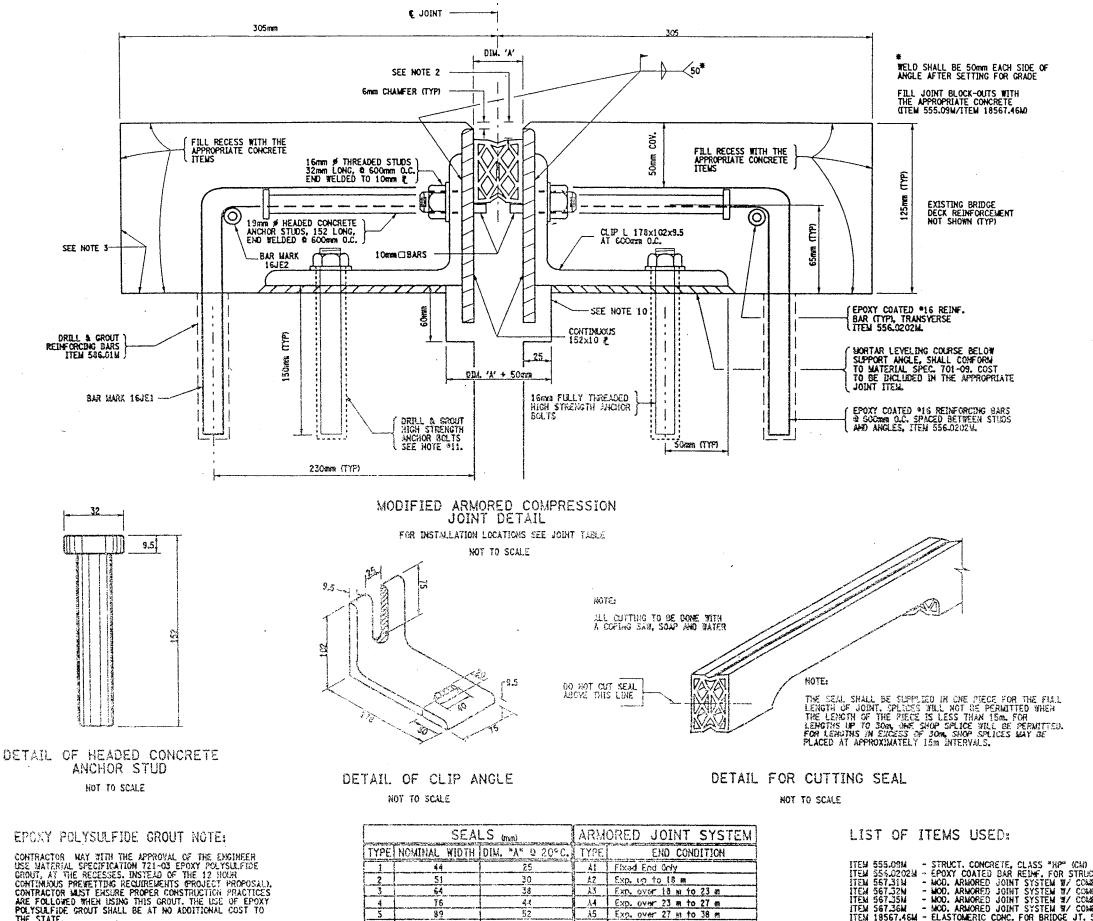
BRIDGE JOINT TABLE

10/02

DRAWING NO.



305613AJJA1



CONTRACT NO. FED ROAD STATE SHEET NO. TOTAL N.Y. 365 432 BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC) VARIOUS BRIDGES ON INTERSTATE 481 TOWNS OF DEWITT AND CICERO ONONDAGA COUNTY P.I.N. 305613 B.I.N. ALL BIN'S

GENERAL NOTES:

- 1. THE TEMPERATURE OF THE BRIDGE MUST BE TAKEN ON THE STRUCTURAL STEEL SURFACE TO DETERMINE THE TEMPERATURE CORRECTION FOR THE JOINT OPENINGS.
- 2. THIS DEPTH SHALL BE INDICATED ON THE SHOP DRAWINGS AND SHALL BE SUCH THAT WHEN THE SEAL IS COMPRESSED TO 50% OF ITS NORMAL WIDTH, THE TOP OF THE SEAL SHALL BE NOT LESS THAN 6mm NOR MORE THAN 19mm BELOW THE TOP OF THE ROADWAY.
- 3. RECESSES RECEIVING ITEM 555.09M. AFTER SURFACE PREPARATION, THOROUGHLY WET THE CONCRETE SURFACE AND ALL POROUS SURFACES TO BE IN CONTACT WITH NEW CONCRETE, FOR 12 HOURS. NOTE THE USE OF MATERIAL SPECIF, 705-22 PORTLAND CEMENT MORTAR BONDING GROUT HAS BEEN ELIMINATED, SEE INSERT IN PROJECT
- 4. A WATER-TIGHT INTEGRITY TEST SHALL BE PERFORMED BY THE CONTRACTOR AT ALL COMPRESSION SEAL JOINT INSTALLATIONS. THE FOLLOWING TEST PARAMETERS SHALL BE INCORPORATED IN THE TEST:
 - 1. A 15 MEMLITE MINIMUM PERIOD OF STANDING WATER, WITH A 25mm MINIMUM DEPTH SHALL BE USED.
 - 2. IN ADDITION, IN LOCATIONS OF COPED AREAS OF THE SEAL, BENDS, ETC., WATER PRESSURE SHALL BE APPLIED, TO THE SATISFACTION OF THE EIC FOR A 15 MINUTE PERIOD.
 - 3. LIMITS OF TEST AREA SHALL BE FROM FACE OF CURB TO FACE OF CLEB ON THE DECK SURFACE.
- 5. NO PAYMENT WELL BE MADE TO THE CONTRACTOR FOR THE JOINT IF, IN THE OPINION OF THE ENGINEER, THE INSTALLED JOINT LEAKS WITHIN THE 15 MINUTE TEST PERICO.
- S. PRIOR TO THE START OF BORK AT EACH JOINT, THE CONTRACTOR SHALL SUBMIT A BRITTEN PLAN FOR THE SPECIFICS OF THE TESTENG, INCLUDING CONTAINMENT OF THE MATER AND THE METHOD TO BE USED FOR ACCESS BY THE ELIC. TO THE SOTTOM OF THE JOINT BEING TESTED.
- 7. THE COST OF ALL LABOR, EQUIPMENT AND MATERIALS REQUIRED FOR THE TESTING WHICH INCLUDES. BUT IS NOT LIMITED TO:
 - 1. A CONTAINMENT SYSTEM FOR THE TEST WATER.
 - 2. PROVISIONS FOR ELLC. ACCESS TO THE BOTTOM OF THE JOINT. SHALL BE INCLUDED IN THE PRICE BID FOR THE RESPECTIVE JOINT ITEMS.
- 8. THE COST OF ALL LABOR, EQUIPMENT, AND MATERIALS TO INSTALL THE NEW JOINT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE APPROPRIATE JOINT ITEM.
- 9. MORTAR LEVELING COURSE SHALL CONFORM TO MATERIAL SPECIFICATION 701-09 AND SHALL BE INCLUDED IN THE PRICE BID FOR THE APPROPRIATE JOINT ITEM.
- 10, THE DIMENSIONS OF THE REMOVAL AREA IMPORT THE 152×10 PLATES ARE SHOWN TO ALLOW SPACE FOR THE PLATES TO REST FREELY. IF THERE IS ALREADY ADEQUATE SPACE, NO CONCRETE REMOVAL OR REPLACEMENT IS REQUIRED IN
- 11. 16 mm # ASTM AB2SM AMCHOR BOLT TO BE DRILLED AND GROUTED IN PLACE IN ACCOMPANCE WITH THE RECEMBERTS OF SUB-SECTION 586-3.02, GROUTING MATERIALS SHALL BE IN ACCORDANCE WITH MATERIALS SUB-SECTION 701-07 ANCHORING MATERIALS—CHEMICALLY CURING, HATERIALS SUB-SECTION 701-07 ANCHORING MATERIAL—OF THE CREMENDALLY CURING, HATERIAL SUB-SECTION TO THE MANUFACTURE OF THE GROUTING MATERIAL CHIN, DEPTH OF 150 mm). THE COST OF THE ANCHORS, INCLIDING DRILLING AND GROUTING, SHALL BE INCLIDED IN THE UNIT PRICE BID FOR THE APPROPRIATE JOINT SYSTEM LIFE. APPROPRIATE JOINT SYSTEM ITEM
- 12. IT IS DESIRABLE TO HAVE THE ARMORED JOINT WITH ITS COMPRESSION SEAL ASSEMBLED IN THE SHOP AND DELIVERED TO THE JOB SITE ALL SET FOR DISTALLATION IN ITS PREFURBED RECESS IN THE STRUCTURAL SLAB. IN CASES WHERE WE ARRENDED JOINT CANNOT BE ASSEMBLED IN THE SHOP, DUE TO ITS EXCESSIVE LENGTH CAUSING SHIPPING PROBLEMS, THE JOINT SHALL BE SEALED WITH THE COMPRESSION SEAL BEFORE THE STRUCTURE IS OPENED TO TRAFFIC INCLUDING CONSTRUCTION PRAFFIC, AND REFORE THE STRUCTURE IS OPENED TO TRAFFIC INCLUDING CONSTRUCTION PRAFFIC, AND REFORE DIS CONTRACTION SHEN WORK IS SUSPENDED DURING THE WINTER.

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS DATE SIGNATURE INTERSTATE 481

COMPRESSION SEAL JOINT DETAILS



STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION

FILENAME REGION DATE DRAWING NO. 305613AJJJA1 10/02

ITEM 555.09M - STRUCT, CONCRETE, CLASS "HP" (CN)
ITEM 555.0202M - EPOXY COATED BAR REIMF, FOR STRUCT, KGG
ITEM 567.31M - MCD. ARMORED JOINT SYSTEM W/ CCAP. SEAL TYPE A1 (m)
ITEM 567.35M - MCD. ARMORED JOINT SYSTEM W/ CCAP. SEAL TYPE A2 (m)
ITEM 567.35M - MCD. ARMORED JOINT SYSTEM W/ CCAP. SEAL TYPE A5 (m)
ITEM 567.35M - MCD. ARMORED JOINT SYSTEM W/ CCAP. SEAL TYPE A6 (m)
ITEM 5857.45M - LASTOMARTIC CONC. FOR BRIDGE JT. SYSTEMS 600
ITEM 586.01M - DRILL & GROUT REIMF, BARS (mm)

Maximum Skew Limits: Fixed End - No Limit Exp. End - 45° A2 thru A6

4.8

52

76

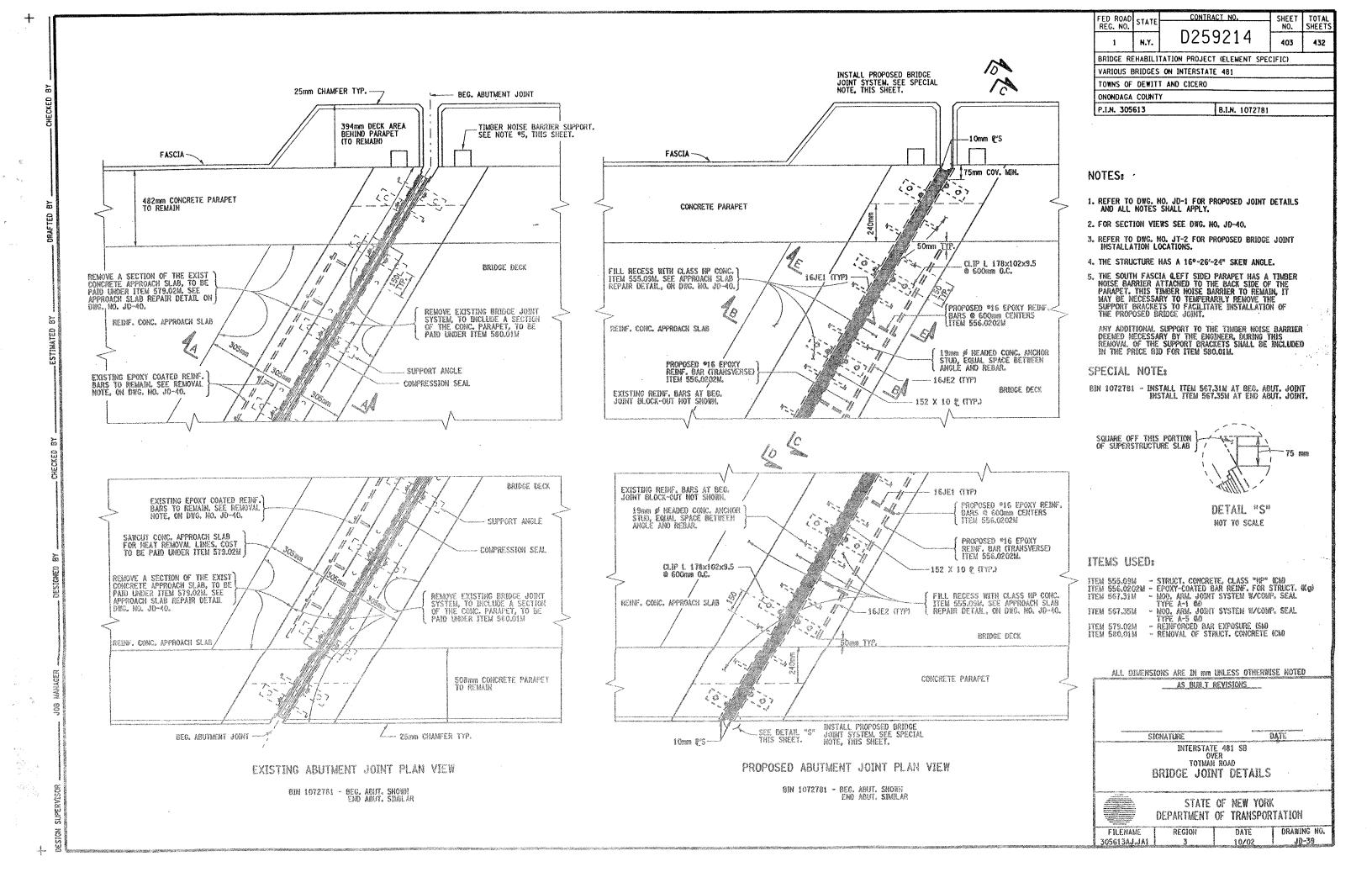
89

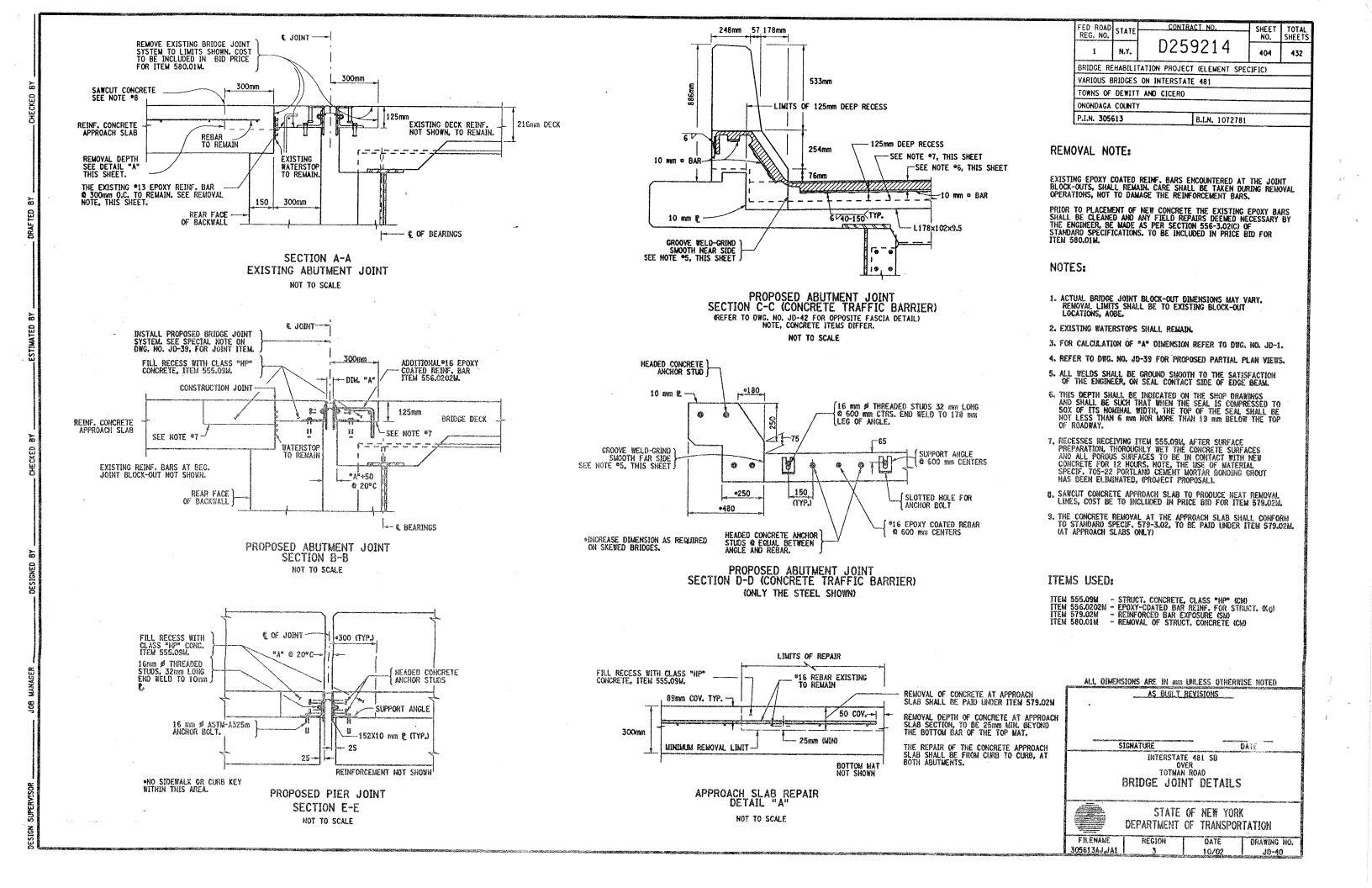
A4 Exp. over 23 m to 27 m

A5 Exp. over 27 m to 38 m

46 Exp. over 38 m to 46 m

S. 4





Asbestos Sampling Survey

Location:

BIN 1072781 Interstate Route I-481 South Bound over Totman Road

Prepared for:

New York State Department of Transportation

PIN 3056.13.111

LaBella Project No. 201001

August 2001

Table of Contents

	Pa	ge
I.	Project Summary	1
II.	Site Description	1
Ш.	Inspection Procedures	1
IV.	Results	2
Certifi	ication2	2

Figures and Table

I. Project Summary

In accordance with conditions of Term Agreement D012606, LaBella Associates, P.C. conducted an asbestos sampling survey of the Interstate Route I-481 south bound bridge over Totman Road. Based on laboratory analyses of bulk samples collected, no asbestos-containing materials were identified.

II. Site Description

The Site is located in Onondaga County, New York. For the purpose of this report, the Site consists of the Interstate Route I-481 south bound bridge over Totman Road. (See attached FIGURE 1 - Site Location Map).

III. Inspection Procedures

The following procedures were used to obtain the data for this Report:

- A. A review of record drawings supplied by Region 3 personnel and a visual inspection of the subject structure were conducted to identify potential visible/accessible sources of asbestos-containing materials. Observations and notes were made to provide a description of the structure, and an estimate of the approximate amount, length, or area of ACM present.
- B. Physical or operational constraints, which might affect the removal of the ACM, were identified and reported.
- C. Bulk samples of suspected ACM were collected during the site inspection of the subject structure. Samples were taken from each homogeneous area that may contain ACM.
- D. Samples were submitted for analysis. Preliminary PLM analyses of NOB materials were performed by LaBella Laboratories, a NYSDOH approved laboratory, to determine the presence and percentage of asbestos in each sample. TEM analyses of NOB materials, if necessary, were performed by AMA Analytical, Inc.
- E. Lab results were used to determine the approximate location, type, and amount of the verified ACM.
- F. A drawing of the structure at the Site was created, in order to show sample locations and the approximate locations and amounts of confirmed ACM observed in accessible locations.

Only accessible areas were inspected. Inaccessible areas, such as areas within the bridge or the approaches to the bridge were not included in this inspection. No investigation was conducted by LaBella Associates to determine the presence of underground utilities on or in the immediate vicinity of the Site. Actual sample locations are shown in the attached FIGURE 2. Results of bulk sample analyses are tabulated in the attached TABLE.

IV. Results

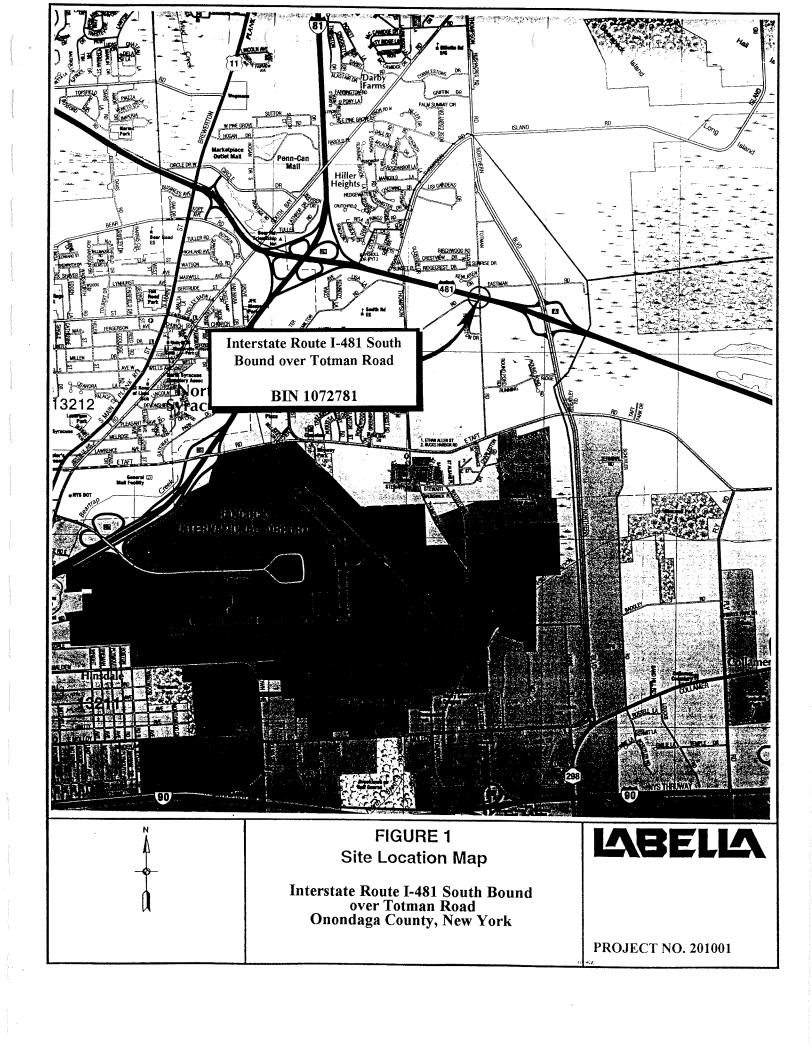
BIN 1072781 Interstate Route I-481 South Bound over Totman Road

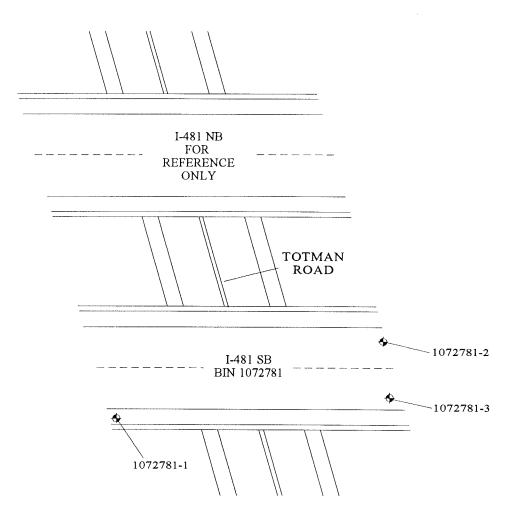
Based on laboratory analyses of bulk samples collected, no asbestos-containing materials were identified.

Certification

LaBella Associates, P.C. certifies the accuracy of this report, to the best of our knowledge, based on the information collected as described in the Inspection Procedures Section of this investigation.

Figures & Table





NOTE: NO ASBESTOS-CONTAINING MATERIALS IDENTIFIED.

LEGEND

♦ 1072781-1 SAMPLE LOCATION

\	PROJECT TITLE: ASBESTOS SAMPLING SURVEY 19 BRIDGES ALONG INTERSTATE I-481	PROJECT NO. 201001
A	ONONDAGA COUNTY, NEW YORK	PIN 3056.13.111
NORTH	FIGURE TITLE: FIGURE 2 BIN 1072781 I-481 SB OVER TOTMAN ROAD	NOT TO SCALE
	SAMPLE LOCATIONS & CONFIRMED ACM	DATE: AUGUST, 2001

Bulk Sample Results Table

Asbestos Sampling Survey
BIN 1072781
Interstate Route I-481 South Bound
over Totman Road
Onondaga County, New York
LaBella Project # 201001
PIN 3056.13.111

Sample #	Sample Location	Type of Material	Results % Asbestos	Amount of Material	Specification Item No.
	West End of Bridge	Gray Caulking			
1072781-1	at Base of Fence	Compound	None Detected	N/A	N/A
	East End of Bridge				
1072781-2	Beneath Bearing	Bearing Pad	None Detected	N/A	N/A
	East End of Bridge	Gray Masonry			
1072781-3	on Back Wall	Coating	None Detected	N/A	N/A



BIN 1072791

I-481 SB over Thompson Road

BIN 1072791

Location: I-481 SB over Thompson Road NYSDOT D031085 PIN 3501.60 - I-81 Viaduct Replacement or New Urban Arterial City of Syracuse, Onondaga County

Bridge Asbestos Assessment Results

No asbestos containing materials have been identified on this bridge.

The following summarizes the results of the most recent asbestos survey and record plan review.

Watts Inspection Findings (December 2013)

A bridge inspection was completed on 12/11/2013 and the following suspect ACMs were identified and sampled:

- Bearing pad
- Grey masonry paint
- Grey expansion joint caulk

None of these materials came back positive for asbestos.

Review of Bridge Record Plans

Record plans (D250416, D259214) were reviewed in support of the field survey. There were no suspect ACMs identified.

Previous Survey Results

A previous asbestos survey competed by LaBella in 2001 was reviewed in support of this project. No asbestos containing materials were identified.

No additional sampling and materials testing is required for this structure.

May 10, 2022 1



Watts Architecture & Engineering

BRIDGE ASBESTOS FIELD INSPECTION FORM

pector(s): W. Kach	Watts Project No:	60, D031085 13092
Keal North	Field Inspection Checklist Item Girder Paint Truss Paint Abutment Coating Abutment Caulk Abut. Exp. Jt. Filler Headwall Sheet Packing Bearing Pad Transite Pipe Pipe Coating/Wtr. Proof Scupper Wtr. Proof Dum Dum Paint Deck Caulk Deck Exp. Jt. Filler Approach Sheet Packing Railing Paint Railing Caulk Sidewalk Caulk Lighting Pole Caulk Masonry Castings Miscellaneous Tar Utilities Other Other Other Other	



EMSL Analytical, Inc.

490 Rowley Road, Depew, NY 14043

Phone/Fax: (716) 651-0030 / (716) 651-0394

buffalolab@emsl.com http://www.EMSL.com

EMSL Order: CustomerID:

141400418

WATT50A

CustomerPO: ProjectID:

Attn: Scott Matthews **Watts Architecture & Engineering** 2610 Salina Street Syracuse, NY 13205

Phone: (315) 443-8611 Fax: (315) 443-8605 Received: 02/04/14 10:00 AM

Analysis Date: 2/9/2014 Collected: 12/11/2013

Project: 13092 - 181 Viaduct Replacement or New Urban Arterial Bin 1072791 - 481 B Over Thompson Rd

Test Report: Asbestos Analysis of Bulk Material

		Analyzed		Non A	Asbestos	
Test	t	Date	Color	Fibrous	Non-Fibrous	Asbestos
Sample ID	1072791-1		Description	bearing pad		
	141400418-0001		Homogeneity	Homogeneous		
PLM NYS 19	98.1 Friable					Not Analyzed
PLM NYS 1	98.6 VCM					Not Analyzed
PLM NYS 1	98.6 NOB	2/7/2014	Black			Inconclusive: None Detected
TEM NYS 1	198.4 NOB	2/9/2014	Black			None Detected
Sample ID	1072791-2		Description	bearing pad		
	141400418-0002		Homogeneity	Homogeneous		
PLM NYS 19	98.1 Friable					Not Analyzed
PLM NYS 1	98.6 VCM					Not Analyzed
PLM NYS 1	98.6 NOB	2/7/2014	Black			Inconclusive: None Detected
TEM NYS 1	198.4 NOB	2/9/2014	Black			None Detected
Sample ID	1072791-3		Description	bearing pad		
	141400418-0003		Homogeneity	Homogeneous		
PLM NYS 19	98.1 Friable					Not Analyzed
PLM NYS 1	98.6 VCM					Not Analyzed
PLM NYS 1	98.6 NOB	2/7/2014	Black			Inconclusive: None Detected
TEM NYS 1	198.4 NOB	2/9/2014	Black			None Detected
Sample ID	1072791-4		Description	grey masonry paint		
	141400418-0004		Homogeneity	Homogeneous		
PLM NYS 19	98.1 Friable					Not Analyzed
PLM NYS 1	98.6 VCM					Not Analyzed
PLM NYS 1	98.6 NOB	2/7/2014	Gray			Inconclusive: None Detected
TEM NYS 1	198.4 NOB	2/9/2014	Gray			None Detected
Sample ID	1072791-5		Description	grey masonry paint		
	141400418-0005		Homogeneity	Homogeneous		
PLM NYS 19	98.1 Friable					Not Analyzed
PLM NYS 1	98.6 VCM					Not Analyzed
PLM NYS 1	98.6 NOB	2/7/2014	Gray			Inconclusive: None Detected
TEM NYS 1	198.4 NOB	2/9/2014	Gray			None Detected



EMSL Analytical, Inc.

490 Rowley Road, Depew, NY 14043

Phone/Fax: (716) 651-0030 / (716) 651-0394

buffalolab@emsl.com http://www.EMSL.com

EMSL Order: CustomerID:

141400418

WATT50A

CustomerPO: ProjectID:

Test Report: Asbestos Analysis of Bulk Material

Non Asbestos

				NOII ASD	ESIUS	
Test			Color	Fibrous	Non-Fibrous	Asbestos
Sample ID	1072791-6		Description	grey masonry paint		
	141400418-0006		Homogeneity	Homogeneous		
LM NYS 19	98.1 Friable					Not Analyzed
PLM NYS 1	98.6 VCM					Not Analyzed
PLM NYS 1	98.6 NOB	2/7/2014	Gray			Inconclusive: None Detected
TEM NYS 1	98.4 NOB	2/9/2014	Gray			None Detected
ample ID	1072791-7		Description	grey expansion joint caulk		
	141400418-0007		Homogeneity	Homogeneous		
LM NYS 19	98.1 Friable					Not Analyzed
PLM NYS 1	98.6 VCM					Not Analyzed
PLM NYS 1	98.6 NOB	2/7/2014	Gray			Inconclusive: None Detected
TEM NYS 1	98.4 NOB	2/9/2014	Gray			None Detected
ample ID	1072791-8		Description	grey expansion joint caulk		
	141400418-0008		Homogeneity	Homogeneous		
LM NYS 19	98.1 Friable					Not Analyzed
PLM NYS 1	98.6 VCM					Not Analyzed
PLM NYS 1	98.6 NOB	2/7/2014	Gray			Inconclusive: None Detected
TEM NYS 1	98.4 NOB	2/9/2014	Gray			None Detected
ample ID	1072791-9		Description	grey expansion joint caulk		
	141400418-0009		Homogeneity	Homogeneous		
LM NYS 19	98.1 Friable					Not Analyzed
PLM NYS 1	98.6 VCM					Not Analyzed
PLM NYS 1	98.6 NOB	2/7/2014	Gray			Inconclusive: None Detected
TEM NIVE	98.4 NOB	2/9/2014	Gray			None Detected

Analyst(s)

Rachel Giese

Rhonda McGee

Rhonda McGee, Laboratory Manager or other approved signatory

NOB = Non Friable Organically Bound N/A = Not Applicable VCM = Vermiculite Containing Material

-In New York State, TEM is currently the only method that can be used to determine if NOB materials can be considered or treated as non-asbestos containing. All samples examined for the presence of vermiculite when analyzed via NYS 198.1.

-NYS Guidelines for Vermiculite containing samples are available at http://www.wadsworth.org/labcert/elapcert/forms/VermiculiteInterimGuidance_Rev070913.pdf EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples were received in good condition unless otherwise noted.

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. This report may contain data that is not covered by the NVLAP accreditation.

Samples analyzed by EMSL Analytical, Inc. Depew, NY NYS ELAP 11606

141400418

Turnaround Requested:

Analysis Requested:

Page: Date:

48 Hr.

72 Hr.

5-Day /week

6-10 Day em

Client:	C&S/D
Cileiii.	COS/D

TO

181 Viaduct Replacement or New Urban Arterial

Building / Location:

Project:

Contact:

Scott Matthews

BIN 1072791 (481 \$8 over Thompson Rd) at (315) 443-8611

Email Preliminary Results to:

smatthews@watts-ae.com

Mail Invoice to:

Accounts Payable

Watts Architecture & Engineering, P.C. 95 Perry Street, Buffalo, NY 14203

Mail Report to:

Scott Matthews

PLM X TEM

Watts Architecture & Engineering, P.C.

2610 S Saling Street, Syracuse, NY 13210

Watts Project No.: 13092

3 Hr.

6 Hr.

12 Hr.

24 Hr.

Sample	Material Description	Sample Location	Laboratory Resu
Number	Mulerial Description	Sample Localion	PLM TEA
078791- 1	Bearing pad	East side of bridge	
1 2	n O i n	East side of bridge	
3	ft 17	West side of bridge	
4	Grey masonry paint	East side of bridge	
5	h 1 a	East side of bridge	
6	a. n	West side of bridge	
7	Grey expansion joint caulk	East exp. joint	
8	n (1) . n	East exp. joint	
V 9	n	West exp. joint	

Sam	مامط	D.,,	
Sam	piea	Dy:	

Relinquished By:

Scott Matthews to FedEx

Date:

Received By:

Date:

Comments:

OrderID: 141400415



BIN 1072791 Inspection Photos

I-481 SB over Thompson Road

Photo 1



Photo 2

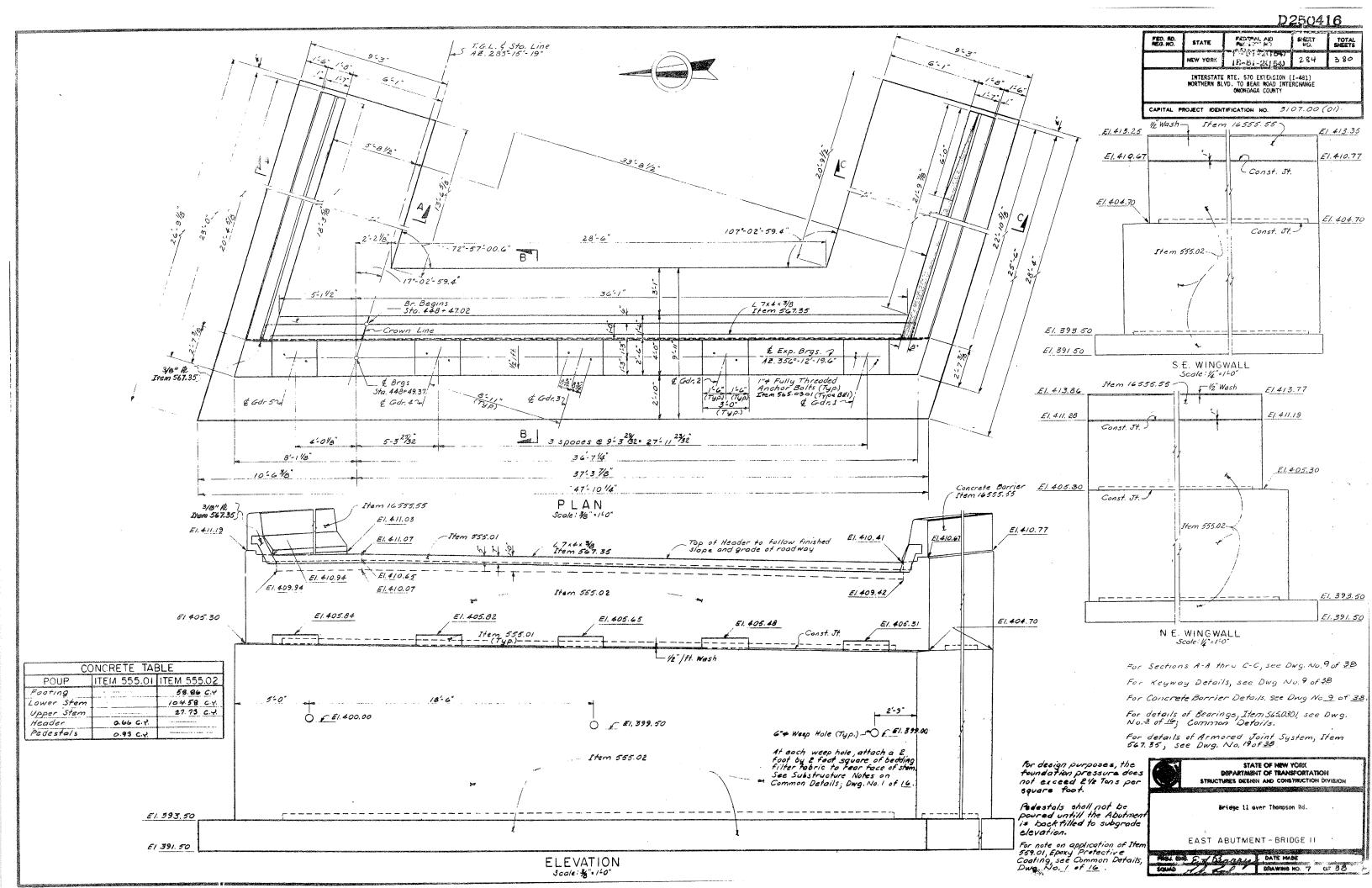


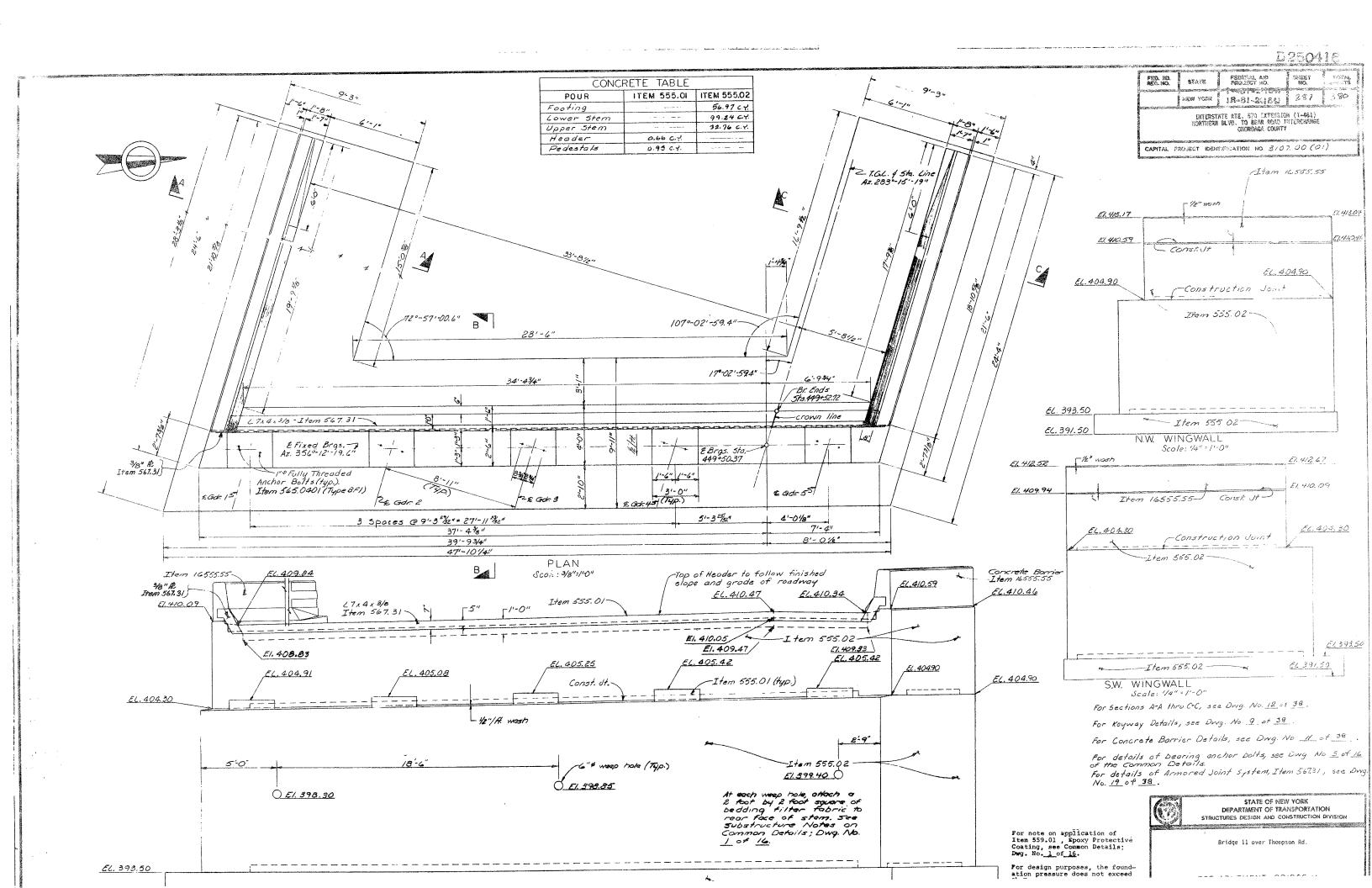
Photo 3



Photo 4







** Type 1 Forms are removable or integral prestressed concrete.

Type 2 Forms are permanent corrugated metal.

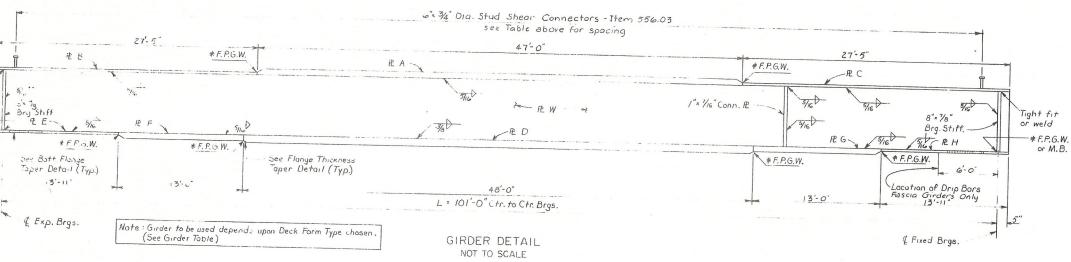
* F.P.G.W. = Full Penetration Groove Weld M.B. = Mill to Bear

STUD S	HEAR CONNECTOR SPACING-ITEM 55	6.03
GIRDER	SPACING	TOTAL
1-5	-61 110 sp. (111 pairs)@ 11" = 100'-10" -16	31005
6-9	≥8 134 Sp (135 pairs) @9" = 100'-6' 18"	1080
10	6 110 sp. (111 pairs) @ 11" = 100-10" 6	222
	End of Girder	

PED. ND. STATE PED. NO. SHEET TO NO. SHEET NO.

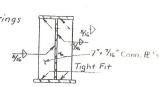
INTERSTATE RTE. 570 EXTENSION (I-481) NORTHERN BLVD. TO BEAR ROAD INTERCHANGE ONONDAGA COUNTY

CAPITAL PROJECT IDENTIFICATION NO. 3107.00 (01)



Bottom Flange G 5. 18 Bearings

BOTTOM FLANGE TAPER



CON' R-IN PAIRS

Full Penetration Groove
Weld or Mill to Bear

Tight Fit

7/6

8"*76"

Brg.Stiff.

7"- 1/4" (onn. R

BRG ST FF.

CONN R- USED SINGLY

G PDEP SECTIONS

CAMBER TABLE	O.IL	0.2L	0.3L	0.4L	0.5L	0.61	071	0.8L	0.9L
IN TIME CAL CURVE FT)	.01	.01	.02	.02	02	.02			
C Britil DL. (FT.)	.02	.04	.05	.06			.02	.02	.01
TE CON RETE D L. FT.)	.09	.17	23		.06	.06	.05	.04	.02
SUPFRIMPOSED DL. FT.) TOTAL (FT.)	.02	1		.27	.28	.27	.23	.17	.09
TOTAL (FT.)		.03	.04	.05	.05	05	.04	.03	.02
0	.14	25	.34	.40	.41	.40	. 34	26	
	.01	02	.02	.03	.03	.03			.14
STELL D.L.(FT)	.02	.04	.05	.06	.06		02	.02	.01
CONCRETE DL (FT)	.09	.16	.23			.06	.05	.04	.02
SUFFRIMP, SED D.L.(FT)	30	.03		.26	.28	.26	.23	.16	.09
O TOTAL FT.)	14		.04	.05	.05	.05	.04	.03	.02
		.25	.34	.40	.42	.40	. 34	.25	.14
- 012 ((11)	.01	20	.02	.02	02	.03	.02		-
	.02	.04	.05	.06	.06			.01	.01
L CONCRETE DL FT)	.08	.16	.21			.06	.05	.04	.02
C - FERIMPOSED DL FT)	.03	.06		. 25	26	.25	. 21	.16	.08
5 TOTAL (FT.)	.14		.08	.09	.10	.09	. 08	.06	.03
TOTAL IT E.	.14	.28	.36	.42	.44	.43	. 36	. 27	.14

Note: Tobles of Camber, Design Load & Moment and Shear are based upon use of the girder which would be used with Deck Form Type 2. (See Girder Table above.)

MOMENT & SHEAR		GIRDER	1-5	GIRDE	R 6-9	GIRDER 10		
***************************************	TABLE		& BRG.	MID. PT.	& BRG.	MID.PT.		7
Di	D:	M MENT		1758	The state of the s	1824		THE PERSON NAMED IN COLUMN TWO
	1 - 1	SHEAR	70		72	1027		1844
	0.5.	MOMENT	456		16		73	
S	S.D.L.	SHEAR		476		456		887
		_	18		18		35	
	. 1	MOMENT		1526		1583		
	LL.	SHEAR	65	29	12			1380
		1 2.12.11		63	67	30	58	26

Shears are expressed as Kips. Live Load Moments and Shears include Impact.

Moments are expressed as Foot Kips.

(DESIGN LOAD TABLE	GIRDER 1-5	GIRDER 6-9	CIBOTO 10
- Attitude	UNIT	LOAD / FT.	LOAD/FT.	GIRDER 10 LOAD/FT
10	SLAB HAUNCH GIRDER SI.P. FORMS DIAPHRAGMS TOTAL	0.948 K/FT. 0.039 K/FT. 0.235 K/FT. 0.121 K/FT. 0.040 K/FT. 1.383 K/FT.	0.983 %/FT. 0.042 %/FT. 0.245 %/FT. 0.125 K/FT. 0.040 %/FT. 1.435 K/FT.	0,985 YFT. 0,042 Y/FT. 0,259 Y/FT. 0,125 Y/FT. 0,040 Y/FT. 1,449 Y/FT.
0 1	CONC BARRIER NOISE BARRIER	0.200 K/FT	0.200 K/FT	0.200 KIFT.
'n	FUTURE W.S TOTAL	0.158 K/FT.	0.158 K/FT.	0.338 K/FT 0.158 K/FT 0.696 K/FT

& Brgs. East Abut:

S.B.T.G.L.& Sto. Line

> & Brgs. East Abut. -

BRIDGE II

Girder 1 Girder 2

Girder 3

GIRDER LAYOUT

NOT TO SCALE

Girder 4 Girder 5

Girder 6

Girder 7

Girder 8

Girder 9

Girder 10

BRIDGE 10

Assumed Live Load = HS 20-44

CAMBER NOTES

- & Brgs. West Abut.

-N.B. T.G.L. & Sto. Line

& Brgs. West Abut.

- The camber labeled "Vertical Curve" in the table is the camber required to follow the vertical curve.
- The camber labeled "Steel D.L." in the table is the camber required to offset the deflection due to the dead load weight of the girder as fabricated.
- The camber labeled "Concrete D.L." in the table is the camber required to offset the deflection due to the dead load weight of the concrete slab.
- The camber labeled "Superimposed D.L." in the table is the camber required to offset the deflection due to the weight of the curb, sidewalk, railing and future wearing surface.
- 5. The total camber is the sum of vertical curve, steel dead load, concrete dead load and superimposed dead load. All camber offsets are measured vertically to the top of web from a straight reference line drawn from the intersection of top of web and centerline of bearing at one end of the girder to the corresponding point at the other end of the girder.
- $\pmb{6}.$ Positive numbers in the table are above the straight reference line.
- Negative numbers in the table are below the straight reference line.
- 8. The camber offsets are tabulated in decimals of a foot.

For Superstructure Notes, see Common Details; Dwg. No. 1 of 16.

All structural steel shall be ASTM A588 steel, unpointed.

For Stud Shear Connector Details, see Common Details; Dwg. No. 5 of 16.

For details of Flange Thickness Taper, see Common Details; Dwg. No. <u>5</u> of <u>16.</u>

The ends of girders and bearing stiffeners shall be vertical. All conn. R's may be perpendicular to the top flange. For layout of connection plates, see Dwy. No 22 of

For Hounch detail, see Dwg. No. 23 of 38.

For Orip Bar Details, see Common Details; Dwg. No. 5 of 16.



STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN AND CONSTRUCTION DIVISION

Bridges 10 & 11 over Thompson Rd.

GIRDER DETAILS, TABLES : CAMBER, MOMENT & SHEAR, AND DESIGN LOADS

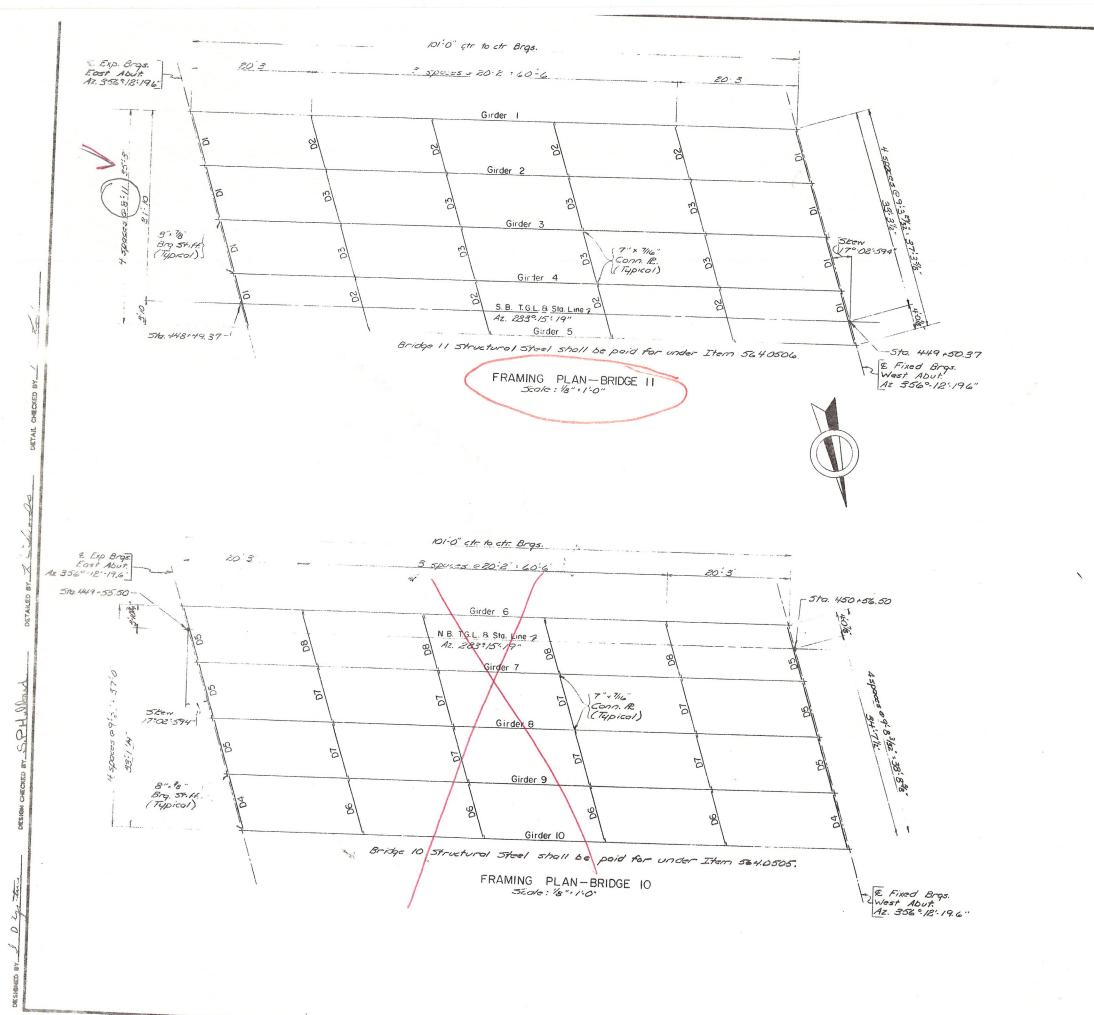
SQUAD AND STRANGE OF SQUAD

1 1/3

F.F.G.W.

or M.B.

S.P. H. Ward



FED. RD. REG. NO. PEDERAL AND PROJECT NO. 1R-81-2(154) HEW YORK INTERSTATE RTE. 570 EXTENSION NORTHERN BLVD. TO BEAR ROAD IN' ONONDAGA COUNTY

CAPITAL PROJECT IDENTIFICATION NO. 3/6

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTAT
STRUCTURES DESIGN AND CONSTRUCTION

FRAMING PLANS

PROJ. ENG. & L Barry DATE MADE

BO 179e (799)

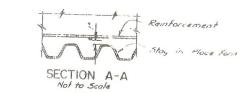
FED. RD. REG. NO. STATE PROFICAL AID SHEET NO. 等的"学术"方面 MEW YORK 300 IR-81-2(154)

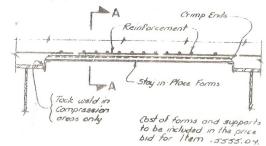
INTERSTATE RTE, 570 EXTENSION (1-481) HORTHERN BLVD. TO BEAR ROAD INTERCHANGE ONONDAGA COUNTY

CAPITAL PROJECT IDENTIFICATION NO. 3107.00 (01)

DIAPHRAGM NOTES

- 4. Where holes are indicated, connections shall be made with $7/8^\circ$ diameter high-strength bolts.
- Cross frames may be fabricated to fit the girders in their erected position and cambered shape, but deflected vertically due to steel dead load only.
- The Contractor may place diaphragms on either side of the bearing stiffeners or stiffener connection plates as necessary to correct alignment provided there will be no interference with other struc-tural details.
- 4. Tapered or flat shim plates may be used in the connection between skewed diaphragms and the bearing stiffeners or stiffener connectiplates. Variable thicknesses of shim plates may be used. The min mam thickness of shim plate shall be 1/8" with a muximum number of three shim plates permitted at any connection. The total thickness of all shim plates used at any connection shall not exceed 1". She plates shall have the dimensions of the faying surface. The shim material shall conform to ASTM Designation A36, except that on unpainted structures, the shim material shall conform to ASTM Designation A388. No additional payment will be made for furnishing and placing the shim plates.





PERMANENT CORRUGATED METAL FORMS (See "DECK FORM OPTIONS" note; Dwg. No 24 of 38

Not to Scoke

CONCRE	ETE TABLE
POUR	ITEM 15555.04
Structural Slab	4417 S.F.

For " Deck Form Options" note, see Dwg. No. 24 of 38

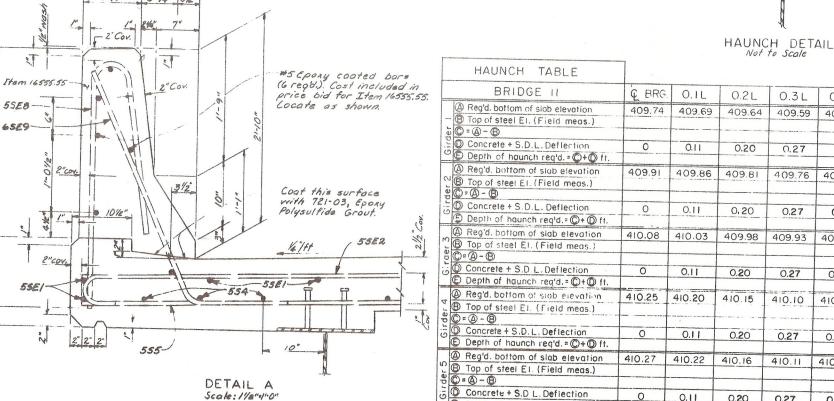
Haunch Table is based upon use of the Girder which would be used with Deck Form Type 2. (See Girder Toble; Dwg. No. 21 of 38.)



STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN AND CONSTRUCTION TO JUSTON

Bridge 11 over Thompson Rd.

TRANSVERSE SECTION & HAUNCH TABLE BRIDGE II



409.59 409.53 409.48 409.42 409.36 409.30 409.24 409 17 0.27 0.32 0.33 0.32 0.27 0.20 0.11 409.76 409.70 409.65 409.59 409.53 409.47 409.41 409.34 0.27 0.32 0.33 0.32 0.27 0.20 0.11 0 409.93 409.87 409.82 409.76 409.70 409.64 409.57 409.51 0.27 0.32 0.33 0.32 0.27 0.20 0.11 410.10 410.04 409.99 409.93 409.87 409.81 409.74 409.68 0.27 0.32 0.33 0.32 0.27 0.20 0.11 0 410.11 410.05 410.00 409.94 409.88 409.81 409.75 409.68 ©= Ø - ®

© concret Concrete + S.D L. Deflection 0.20 0.27 0.32 0.33 0.32 0.27 0.20 0.11 Depth of haunch reg'd. = O+O ft. 0

0.3 L

0.4L

0.5L

0.6 L

0.7L

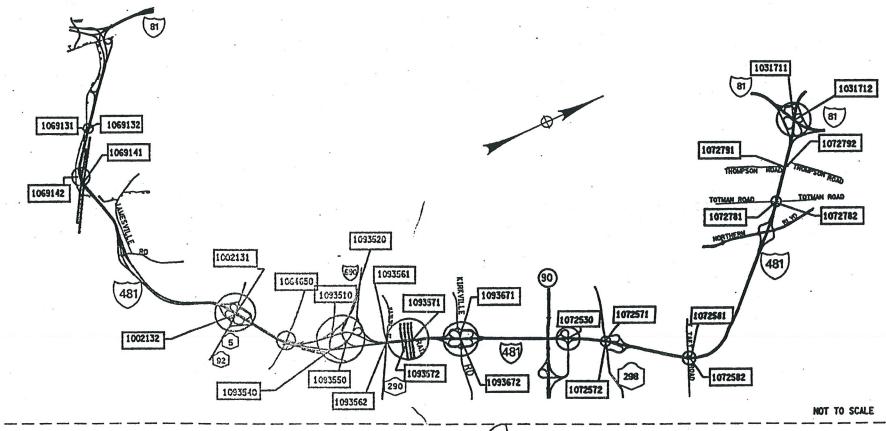
0.8L

0.9 L

C BRG

Note: Computations in the Haunch Table shall be algebraic.

Reco



BRIDGE REHAB. PROJ .- ELEMENT SPECIFIC VARIOUS BRIDGES ON INTERSTATE 481 TOWNS OF DEWITT AND CICERO ONONDAGA COUNTY TOTAL SHEETS FED. ROAD REG. NO. STATE SHEET NO. FEDERAL AID PROJECT NO. CAPITAL PROJECT IDENTIFICATION NO. 3056.13

INDEX ON SHEET NO. 5 & 6

PROJECT LOCATION

REGIONAL TRANSPORTATION MAINTENANCE ENGINEER DATE

RECOMMENDED BY REGIONAL TRAFFIC ENGINEER

	INDEX	,
SHEET NO.	DESCRIPTION	DRAWING NO.
1	TITLE SHEET	COVER
2,3,4	ESTIMATE OF QUANTITIES	
5,6	INDEX	IDX-1 - IDX-2
7-155	MAINTENANCE AND PROTECTION OF TRAFFIC	MPT-1 - MPT-149
		CTC 1
156	CROSSOVER TYPICAL SECTION	CTS-1 HC-1 - HC-4
157-160 161-166	CROSSOVER SURVEY CONTROL DATA CROSSOVER PLANS	CPL-1 - CPL-6
167-174	CROSSOVER PROFILES	CPR-1 - CPR-8
175-177	CROSSOVER MISC. DETAILS	CMD-1 - CMD-3
178-179	CROSSOVER MISC. TABLES	CMT-1 - CMT-2
180-191	ESTIMATE OF QUANTITIES BY STRUCTURE	QE-1A - QE-4C
192	GENERAL NOTES	GN-1
193	BIN 1002131, I481SB/RT. 5, PLAN AND ELEVATION	GP1-1
194	BIN 1002131, TYPICAL BRIDGE SECTION AND PROFILE	TS1-1
195-197	BIN 1002131, SOUTH ABUTMENT (SB) BIN 1002131, NORTH ABUTMENT (SB), SHEET PILING LAYOUT	AB1-1 - AB1-3 AB1-4 - AB1-5
198-199	BIN 1002131, NORTH ADDITION SOF, SHEET FILING LATOUT	PR1-1 & PR1-2
200-201	BIN 1002131 PEDESTAL REPLACEMENT	PR1-3
203	BIN 1002131, BOLSTER DETAILS	PR1-4
204	BIN 1002131, ANCHOR BOLT LAYOUT (SB)	PR1-5
205	BIN 1002132, I481NB/RT. 5, PLAN AND ELEVATION	GP2-1
206-207	BIN 1002132, TYPICAL BRIDGE SECTION AND PROFILE, APPROACH SECTION	TS2-1 & TS2-2
208-213	BIN 1002132, SOUTH ABUTMENT (NB)	AB2-1 - AB2-6
214-219	BIN 1002132, NORTH ABUTWENT (NB)	AB2-7 - AB2-12
220-221	BIN 1002132, PIERS (NB)	PR2-1 & PR2-2
222	BIN 1002132, PEDESTAL REPLACEMENT (NB)	PR2-3
223	BIN 1002132, BOLSTER DETAILS (NB)	PR2-4
224	BIN 1002132, ANCHOR BOLT LAYOUT (NB)	PR2-5
225	BIN 1031711 AND 1031712, I-481/I-81, PLAN AND ELEVATION	GP3-1
226	BIN 1031711 & 1031712, TYPICAL BRIDGE SECTION AND PROFILE	TS3-1
227	BIN 1031711, EAST ABUTMENT (SB) PLAN & ELEVATION	AB3-1
228	BIN 1031711, WEST ABUTMENT (SB) PLAN & ELEVATION	A83-2
229	BIN 1031712, EAST ABUTMENT (NB) PLAN & ELEVATION	A83-3
230	BIN 1031712, WEST ABUTMENT (NB) PLAN & ELEVATION	A83-4
231	BIN 1031711 & 1031712, APPROACH SLABS	AS3-1
232	BIN 1064650, KINNE RD/1-481, PLAN, ELEVATION, AND BRIDGE SECTION	GP4-1
277	DIL COCCUTA & COCCUTA 3. ACCUMUNTO DEDICTIVO DE LA LAS CICLIATOR	GP5-1
233 234	BIN 1069131 & 1069132, 1-481/QUARRY DRIVEWAY, PLAN AND ELEVATION BIN 1069131 & 1069132, TYPICAL BRIDGE SECTION AND PROFILE AND BRIDGE SECTION	TS5-1
235	SIN 1069131, WEST ABUTMENT (SB) PLAN & ELEVATION	A85-1
236	BIN 1069131, EAST ABUTMENT (SB) PLAN & ELEVATION	A85-2
237	BIN 1069132, EAST ABUTMENT (NB) PLAN & ELEVATION	AB5-3
238-239	BIN 1069141 & 1069142, I-481/NYS + W RAILROAD, GENERAL PLAN AND ELEVATION	GP6-1 - GP6-2
240-241	BIN 1069141 & 1069142, TYPICAL BRIDGE SECTION AND PROFILES	TS6-1 & TS6-2
242	BIN 1069141, WEST ABUTMENT (SB) PLAN & ELEVATION	AB6-1
243	BIN 1069141, EAST ABUTMENT (SB) PLAN & ELEVATION	AB6-2
244	BIN 1069142, WEST ABUTMENT (NB) PLAN & ELEVATION	AB6-3
245	BIN 1069142, EAST ABUTWENT (NB) PLAN & ELEVATION	AB6-4

SHEET NO.	DESCRIPTION	DRAWING NO.
246	BIN 1072530, RAMP TO 1-481/1-481, PLAN, ELEVATION AND BRIDGE SECTION	GP7-1
247-248	BIN 1072530, EAST ABUTMENT	AB7-1 - AB7-2
249	BIN 1072571 & BIN 1072572, I-481/ROUTE 298 PLAN AND ELEVATION AND BRIDGE SECTION	CD0 4
250	BIN 1072571 & BIN 1072572, TYPICAL BRIDGE SECTION AND PROFILE	GP8-1 TS8-1
251	BIN 1072571, SOUTH ABUTMENT (SB) PLAN & ELEVATION	AB8-1
252	BIN 1072571, NORTH ABUTMENT (SB) PLAN & ELEVATION	AB8-2
253	BIN 1072572, SOUTH ABUTMENT (NB) PLAN & ELEVATION	AB8-3
		700 0
254	BIN 1072581 & BIN 1072582, I-481/TAFT ROAD, PLAN AND ELEVATION	GP9-1
255	BIN 1072581 & 1072582, TYPICAL BRIDGE SECTION AND PROFILE	TS9-1
256-257	BIN 1072581, SOUTH ABUTMENT AND NORTH ABUTMENT (SB)	AB9-1 & AB9-2
258-259	BIN 1072582, SOUTH ABUTMENT AND NORTH ABUTMENT (NB)	AB9-3 & AB9-4
000	DIN 1070761 4 DIN 1070780 1 404 (TOTALN) DOLD OF AN ELECTION WE DESCRIPTION	
260	BIN 1072781 & BIN 1072782, I-481/TOTMAN ROAD, PLAN, ELEVATION AND BRIDGE SECTION	GP10-1
261	BIN 1072781 & BIN 1072782 TYPICAL BRIDGE SECTION AND PROFILE	TS10-1
262-263	BIN 1072781, EAST ABUTMENT (SB) PLAN & ELEVATION	AB10-1 & AB10-2
264	BIN 1072782, WEST ABUTHENT (NB) PLAN & ELEVATION	AB10-3
265	BIN 1072781, APPROACH SLABS	AS10-1
266	BIN 1072791 & BIN 1072792, I-481/ THOMPSON ROAD, PLAN, ELEVATION AND BRIDGE SECTION	GP11-1
267	BIN 1072791 & BIN 1072792 TYPICAL BRIDGE SECTIONS AND PROFILE	TS11-1
268	BIN 1072791, EAST & WEST ABUTMENTS (SB)	AB11-1
269	BIN 1072791, APPROACH SLAB (SB)	AS11-1
		73111
270	BIN 1093510, I-690 RAMP/ I-481SB, PLAN, ELEVATION, AND BRIDGE SECTION	GP12-1
271	BIN 1093510, WEST ABUTMENT PLAN & ELEVATION	AB12-1
272	BIN 1093520, WN LINE OVER INTERSTATE 481 SB, PLAN, ELEVATION, AND BRIDGE SECTION	
	BIN 1093520, WEST ABUTMENT PLAN & ELEVATION	GP13-1 AB13-1
213	DIR 103320, ACST AUDITACRI TEAR & CELTATION	AB13-1
274	BIN 1093540, I-690 EB/ I-481 MB RAMP, PLAN, ELEVATION, AND BRIDGE SECTION	GP14-1
275	BIN 1093540 TYPICAL BRIDGE SECTION AND PROFILE	TS14-1
276 🧐	BIN 1093540, WEST ABUTMENT	AB14-1
	BIN 1093550, I-481 NB/WB CONNECTOR, PLAN, ELEVATION, AND BRIDGE SECTION	GP15-1
278	BIN 1093550, SOUTH ABUTMENT, NB PLAN & ELEVATION	AB15-1
279	BIN 1093550, NORTH ABUTMENT, NB PLAN & ELEVATION	AB15-2
280	BIN 1093561 & 1093562, I-481/ROUTE 290, PLAN, ELEVATION AND BRIDGE SECTION	C015-1
281	BIN 1093561 & 1093562 TYPICAL BRIDGE SECTION AND PROFILE	GP16-1 TS16-1
282	BIN 1093561, SOUTH ABUTMENT (SB) PLAN & ELEVATION	AB15-1
283	BIN 1093562, SOUTH ABUTMENT (NB) PLAN & ELEVATION	AB16-2
004.000	DNI 4007574 A DNI 4007579 1 404 600 DATE DATE	
	BIN 1093571 & BIN 1093572, I-481/CSX RAILROAD YARD, PLAN & ELEVATION BIN 1093571 AND BIN 1093572, TYPICAL BRIDGE SECTION AND PROFILES	TS17-1 - GP17-4
1	BIN 1093571 AND BIN 1093672, DRAINAGE DETAILS	DD17-1 - DD17-5
	BIN 1093571 AND BIN 1093672, SCUPPER EXTENSIONS	DD17-6 - DD17-8
	BIN 1093571, PIERS 1-14, (SB)	PR17-1S - PR17-18S
	BIN 1093572, SCUTH ABUTMENT (NB)	
	BIN 1093572, PIERS 1-14 (NB)	AB17~1
330-331	BIN 1093571 AND 1093572, PARAPET REPAIR DETAILS	PR17-1N - PR17-14N PW17-1 & PW17-2
332	BIN 1093572, BRIDGE DECK REPAIRS	DR17-1
		DIVIT 1

FED ROAD REG. NO.	STATE		SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	5	432
BRIDGE RE	HABIL I	TATION PROJECT (ELEMENT SPE	CIFIC)	·
VARIOUS B	RIDGES	ON INTERSTATE 481		
TOWNS OF	DEWITT	AND CICERO		
ONONDAGA	COUNTY			
P.J.N. 305	513	B.J.N. ALL BINS	5	

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INTERSTATE 481

REHABILITATION PROJECT

INDEX



STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

FILENAME 305613AA.L2A DRAWING NO. IDX-1 DATE 10/02

	INDEX (CONTINUED)	
SHEET NO.	DESCRIPTION	DRAWING NO.
333	BIN 1093671 & 1093672, I-481/KIRKYILLE ROAD, PLAN, ELEVATION AND BRIDGE SECTION	GP18-1
334	BIN 1093671 & BIN 1093672 TYPICAL BRIDGE SECTION AND PROFILE	TS18-1
335-336	BIN 1093671, SOUTH ABUTMENT (SB) PLAN, ELEVATION AND SECTIONS	AB18-1 - AB18-2
337	BIN 1093671, NORTH ABUTHENT (SB) PLAN & ELEVATION	AB18-3
338-339	BIN 1093672, SOUTH ABUTMENT (NB) PLAN, ELEVATION AND SECTIONS	AB18-4 - AB18-5
340	BIN 1093672, NORTH ABUTMENT (NB) PLAN & ELEVATION	AB18-6
		ļ
341-342	BIN 1002131, BIN 1002132 & BIN 1093571, MULTIROTATIONAL BEARINGS	BR-1 & BR-2
343	BIN 1002131, BEARING RESTORATION DETAILS	BR-3
344	BINS 1069131 & 1069132, BEARING RESTORATION DETAILS	BR-4
345-346	BIN 1069141 & BIN 1069142, BEARING RESTORATION DETAIL	BR-5 & BR-6
347	BIN 1072530, BEARING RESTORATION DETAILS	BR-7 BR-8
348	BIN 1072791 AND BIN 1072792 BEARING RESTORATION DETAILS	BR-9
349	BIN 1093550, BEARING RESTORATION DETAILS	BR-10 & BR-11
350-351	BINS 1093751 & 1093572, BEARING RESTORATION DETAILS BIN 1072781 BEARING RESTORATION DETAILS	BR-12
352	BIN 1012101 DEARING RESTORATION DETAILS	DN-12
	RAILING DETAILS	
353-355	BIN 1002131 & BIN 1002132, RAILING DETAILS	RD-1 - RD-3
356-358	BIN 1069141 & BIN 1069142, RAILING DETAILS	RD-4 - RD-6
359-360	RAILING DETAILS	RD-7 - RD-8
	BRIDGE JOINTS	
361-364	BRIDGE JOINT TABLE	JT-1 - JT-4
365	COMPRESSION SEAL JOINT DETAIL (ALL BRIDGES)	JD-1
366-370	BIN 1002131, JOINT DETAILS	JD-2 - JD-6
371-375	BIN 1002132, JOINT DETAILS	JD-7 - JD-11
376-377	BIN 1031711 & BIN 1031712, JOINT DETAILS	JD-12 - JD-13
378-383	BIN 1064650, JOINT DETAILS	JD-14 - JD-19 JD-20 + JD-21
384-385	BIN 1069131, JOINT DETAILS BIN 1069132, JOINT DETAILS	JD-22 + JD-23
386-387	BIN 1069141 & BIN 1069142	JD-24 - JD-28
388-392 393-394	BIN 1072530, JOINT DETAILS	JD-29 + JD-30
395-396	BIN 1072571. JOINT DETAILS	JD-31 + JD-32
397-398	BIN 1072572, JOINT DETAILS	JD-33 + JD-34
399-400	BIN 1072581, JOINT DETAILS	JD-35 + JD-36
401-402	BIN 1072582, JOINT DETAILS	JD-37 + JD-38
403-404	BIN 1072781, JOINT DETAILS	JD-39 + JD-40
405-406	BIN 1072782, JOINT DETAILS	JD-41 + JD-42
407-408	BIN 1072792, JOINT DETAILS	JD-43 + JD-44
409-410	BIN 1093510, JOINT DETAILS	JD-45 + JD-46
411	BIN 1072791, BIN 1093520 & BIN 1093540, JOINT DETAILS	JD-47
412-413	BIN 1093550, JOINT DETAILS	JD-48 + JD-49
414-416	BIN 1093561 & BIN 1093562, JOINT DETAILS	JD-50 - JD-52
417-420	BIN 1093571 & BIN 1093572, JOINT DETAILS	JD-53 - JD-56 JF-57 - JD-59
421-423	BIN 1093671 & BIN 1093672, JOINT DETAILS	0F-01 - 00-08

INDEX (CONTINUED)	
SHEET DESCRIPTION	DRAWING NO.
424 VARIOUS BRIDGES - ROAD PLATE DETAIL	AA - RP1
YARIOUS ORIOUES - ROAD FLATE DETAIL	AA S NF1
BAR LIST	
425-428 ALL BINS (BRIDGE JOINT SYSTEMS)	BL-1 - BL-4
429 BIN 1002131 & 1002132	BL-5
430 BIN 1093571	BL-6
431 STRUCTURAL SLAB OVERLAY & ASPHALT PAVEMENT REPAIR DETAILS	MS-1
432 MISC. TABLE	MT-1
	· · · · · · · · · · · · · · · · · · ·

FED ROAD	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	1 N.Y. D2 BRIDGE REHABILITATION PR VARIOUS BRIDGE ON INTERS TOWN OF DEWITT AND CICER ONONDAGA COUNTY	D259214	6	432
BRIDGE RE	HABILI	TATION PROJECT (ELEMENT SPEC	IFIC)	
VARIOUS E	RIDGE	ON INTERSTATE 481		T
TOWN OF	DEWITT	AND CICERO		
ONONDAGA	COUNT	1	·	
P.I.N. 305	613	B.I.N. VARIOUS		

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SIGNATURE DATE
INTERSTATE 481
REHABILITATION PROJECT

INDEX



STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION

FILENAME 305613AA.L2A REGION 3 DATE 10/02 DRAWING NO. IDX-2

			1													
ITEM *	DESCRIPTION	UNIT				782	1072791		107			3510		3520	1093	,
			EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINA
203.02 M	UNCLASSIFIED EXCAVATION & DISPOSAL	CM	2				2					ļ				
203.03 M	EMBANKMENT IN PLACE	CM														
203.07 M	SELECT GRANULAR FILL	CM														
203.1770 M	CLEAN EXISTING PIPE CULVERY	м														
203.18 M	CLEANING CLOSED DRAINAGE SYSTEMS	u														
203.19 M	CLEAN DRAINAGE STRUCTURES AND MANHOLES	. EA														
203.21 M	SELECT STRUCTURE FILL	CM					************									
15203.51 M	GRADING, CLEANING AND RESHAPING EXISTING DITCHES	М														
206.01 M	STRUCTURE EXCAVATION	СМ					-									
206.02 M	TRENCH AND CULVERT EXCAVATION	СМ														
207.10 M	GEOTEXTILE BEDDING	zu su														
210.5433 M	REMOVAL AND DISPOSAL OF ASBESTOS CONTAINING CAULKING (BY 12)	LS														
	REMOVAL AND DISPOSAL OF MISC. ASBESTOS CONTAINING MATERIAL BY-12	LS											NEC			
210.9913 M	SUBBASE COURSE, OPTIONAL TYPE	Cui														
304.15 M	12.5mm F2 SUPERPAYE HMA, 80 SERIES COMPACTION	VT VT	7	 			3				3					
402.128201 M	PLANT PRODUCTION QUALITY ADJUSTMENT TO ITEM 402.128201M	QU QU	1	 			1				1	T				
402.128211 M		NLL AD	 	 			•				4	†				
402.258901 M	25mm F9 SUPERPAYE HMA, 80 SERIES COMPACTION	QU									1	 				
402.258911 M	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.258901M	ru.		 				1			-	 				
402,378901 M	37.5mm, F9 SUPERPAYE HMA, 80 SERIES COMPACTION		-	-	 					 		 		 		
402.378911 M	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402,378901M	QU .	-	 	-		5		Constitutions	-						
407.01 M	TACK COAT		5	-			5				9					-
490,30 M	MISC. COLD MILLING OF BITUMINUS CONCRETE	ŞW	 								25					
502.92 M	SEALING TRANSVERSE JOINTS	М											21	ļ'	21	
08520.5014 M	SAWCUT, ASPH, COHC/ASPH, OVERLAY- PCC PAVE	И	74				48				17					
552.13 M	TEMPORARY STEEL SHEETING	SM		ļ												
555,0105 M	CONCRETE FOR STRUCTURES - CLASS A	CM	1													
555.09 M	CONCRETE FOR STRUCTURES, CLASS HP	C77	3		1				1		1					
18555.81 M	STRUCTURAL CRACK SEALING	LM	6													
556.0201 M	UNCOATED BAR REINFORCEMENT FOR CONCRETE STRUCTURES	KG		ļ												
556.0202 M	EPOXY COATED REBAR FOR STRUCTURES	KG	70		72				71		52					
558.01 M	TRANSVERSE SAWCUT GROOVING OF STR SLAB SURF	su	18				17									
18559.1696 M	PROTECTIVE SEALER STRUCTURAL CONCRETE	2.11														
18559.1896 M	PROT SEAL STR. CONC NEW BRIDGE DECK OVERLAYS	SM														
564,0501 M	STRUCTURAL STEEL	LS														
565.1522 M	TYPE MLR. EXPANSION BEARING (1001 TO 2000 KN)	EA											_			
565.1722 M	TYPE M.R. FIXED BEARING (1001 TO 2000 KN)	EA									Calarianess					
15565.4302 M	BRIDGE BEARING RESTORATION	EA	10				10		10							
566.01 M	MODULAR EXPANSION JOINT SYSTEM, ONE-CELL	У														
566.02 M	MODULAR EXPANSION JOINT SYSTEM TWO-CELL	y v	1_						-				·			
567.31 M	ARM JNT SYS WI COMPRESSION SEAL - TY A1	u u	13	1	13				14							
	ARM JNT SYS WI COMPRESSION SEAL - TY A2		13	1	13											1
567.32 M		- A	13	 	13	 			14			ì –				
567.35 M 567.36 M	ARM JNT SYS WI COMPRESSION SEAL - TY A5 ARM JNT SYS WI COMPRESSION SEAL - TY A6	n n	13	1	1			tl						-		
	ELASTOMERIC CONCRETE FOR BRIDGE JOINT SYSTEMS	N N			26				26							
18567.46 M	REPLACE COMPRESSION SEAL IN EXISTING BRIDGE JOINTS	И		1	45		28	\vdash	20		18		10		10	
16567.640001 M		EA					-0									
568.32 M	CEMENT MORTAR PADS		-	 				\vdash								
568.50 M	STEEL BRIDGE RAILING (2 RAIL)	LS	=	 												
570.090001 M	ENVIRONMENTAL GROUND PROTECTION		-	 	-			 		 						
570.090002 M	ENVIRONMENTAL GROUND PROTECTION	LS												\vdash		
570.090003 M	ENVIRONMENTAL GROUND PROTECTION	LS		 				 				-				
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REG. NO.	STATE	CONTRA			SHEET NO.	TOTAL
1	N.Y.	D259	321	. 4	186	432
BRIDGE RE	HABILIT	ATION PROJECT	ŒLEN	ENT SPEC	IFIC)	
VARIOUS B	RIDGES	ON INTERSTATE	481			
TOWNS OF	DEWITT	AND CICERO				
ONONDAGA	COUNTY	'				
P.I.N. 3050	613		B.I.N.	VARIOUS		

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AS BUILT REVISIONS

SIGNATURE DATE

SHEET 7 OF 12

ESTIMATE OF QUANTITIES



STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DATE DRAWING NO. 10/02 QE-3A FILENAME 305613.L1A REGION 3

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*	CHECKED BY	5 5 1 1 1
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	DESIGNED BY CHEC	
	JOB MANAGER	
The swa south of the control of the	DESIGN SUPERVISOR	
	JOB MANAGER	

	ESTIMATE OF QUANTITIES BY STRUCTURE																
STATISTICATE STAT	ITEM *	DESCRIPTION					107	2792	1093510 1093520			3520	1093540				
STATISTICATE				EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL
SENIORON MONOWER'S ANTENER PROTECTION 15	570.090004 M	ENVIRONMENTAL CROING PROTECTION	LS													 	
STANDOOD W NORMORNETH ANTENNA PROPERTIES STANDOOD W CHARLED ANTENNA PROPERTIES STANDOOD W CHARLED ANTENNA STEELER, STANDOOD W CHARLED AND COPERAD CHARLE			 												l	<u> </u>	
			 														
1987/15			1													†	
INTELLIGENT IN COLUMN CO			1											 		1_	
STATEMENT AND DISPOSES, OF PLANT REMOVED, MINTER STAT																	
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STANDOOR NEALEST AND GISPOOL OF PART REMOVAL NISTE			 	 											1	 	
STADDOOR REATHERS AND GUPSSAL OF PAINT REMOVAL WASTE			 	1													
17.00000																	
STRUCTORAL STRUCTURAL STRUCT MANY SHOPLED S.W																	
STR-2000 DORS-SYLT SISTER_DORTE DORTE BON			1												İ		
STREADOON				T													
STRADDOOD OVERLAY COMMERTE - CLASS E SU			 														<u> </u>
STADOCOCOL			1														
STRACTORDOR WORLAY COMERTE - CLASS E SM			1														
STRACTOROUS NO OVERLACT CONDETE - CLASS D OR E			SH														
\$78,050001 W \$1.AB RECONSTRUCTION CONCRETE - CLASS D OR E \$9.0			SII														
\$78,050002 W SLAB RECONSTRUCTION CONCRETE - CLASS D OR E			SM														<u> </u>
\$18,0000 M SLAB RECONSTRUCTION CONCRETE - CLASS D OR E SM			SU														
\$18,030005 W \$1.8.B RECONSTRUCTION CONCRETE - CLASS D OR E \$50		SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM														I
\$78.030000 W \$1.8B RECONSTRUCTION CONCRETE - CLASS D OR E \$9	578,030004 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM														
STB.030007 M SLAB RECONSTRUCTION CONCRETE - CLASS D OR E		SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM														1
STP.02 M REINFORCING BAR EXPOSIRE		SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SII	18		-			·								1
SECOLO M REMOVAL OF STRUCTURAL CONCRETE CM 3 3	578.030007 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM					17								_	
SEZ.OS M REMOVE STRUCTURAL CONCRETE WITH CLASS A CONCRETE CU 1 1 1 1 1 2 582.07 M REMOVE STRUCTURAL CONCRETE AND REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL SM 15584.13 M RAPID SETTING CONCRETE FOR BRIDGE AND APPROACH SLAB REPAIRS KC	579.02 M	REINFORCING BAR EXPOSURE	SM	26		8		17		8							
SEQ.OT W REMOVE STRUCTURAL CONCRETE AND REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL SW	580.01 M	REMOVAL OF STRUCTURAL CONCRETE	Cit	3		3				3		1		_			
15584.13 M RAPID SETTING CONCRETE FOR BRIDGE AND APPROACH SLAB REPAIRS KG	582,05 M	REMOVE STRUCTURAL CONCRETE WITH CLASS A CONCRETE	CM	1		1		1				1		1		2	ł
SES.O1 M STRUCTURAL LIFTING OPERATIONS - TYPE A	582.07 M	REMOVE STRUCTURAL CONCRETE AND REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL	SM														1
S85.02 M STRUCTURAL LIFTING OPERATIONS - TYPE B EA	16584.13 M	RAPID SETTING CONCRETE FOR BRIDGE AND APPROACH SLAB REPAIRS	KG		1												
S85.03 M STRUCTURAL LIFTING OPERATIONS TYPE C	585.01 M	STRUCTURAL LIFTING OPERATIONS - TYPE A	EA	10	<u> </u>			10		10							
S85_03 M STRUCTURAL LIFTING OPERATIONS TYPE C EA	585.02 M	STRUCTURAL LIFTING OPERATIONS - TYPE B	EA														ł
17586.18M DRILLING HOLES IN EXISTING SUBSTRUCTURE 16586.200125 M DRILL AND GROUT ANCHOR BOLTS AND REBAR IN CONCRETE EA — — — — — — — — — — — — — — — — — — —		STRUCTURAL LIFTING OPERATIONS TYPE C	EA	<u> </u>	<u> </u>												
16586_200125 M DRILL AND GROUT ANCHOR BOLTS AND REBAR IN CONCRETE EA	586.01 M	DRILL AND GROUT BOLTS, OR REINFORCING BARS	m/m	6000		6000				6600		4200			<u> </u>		
16586_200216 M DRILL AND GROUT ANCHOR BOLTS AND REBAR IN CONCRETE EA	17586.18M	DRILLING HOLES IN EXISTING SUBSTRUCTURE	u	<u> </u>	<u> </u>												Ĺ
587.01 M BRIDGE RAILING REMOVAL AND DISPOSAL M —	16586,200125 M	DRILL AND GROUT ANCHOR BOLTS AND REBAR IN CONCRETE	EA	<u> </u>	<u> </u>												L
S89.520001 M REMOVAL OF EXISTING STEEL	16586.200216 N	DRILL AND GROUT ANCHOR BOLTS AND REBAR IN CONCRETE	EA		<u> </u>												ļ
589.520002 M REMOVAL OF EXISTING STEEL EA —	587.01 M	BRIDGE RAILING REMOVAL AND DISPOSAL	М	<u> </u>				<u> </u>									ļ
589.520003 M REMOVAL OF EXISTING STEEL EA — — — — — — — 589.520004 M REMOVAL OF EXISTING STEEL EA — — — — — — — 589.520005 M REMOVAL OF EXISTING STEEL EA — — — — — — — 590.01M VERTICAL ADJUSTMENT OF BRIDGE DRAINAGE DEVICES EA — — — — — — 603.6001 M REINFORCED CONCRETE PIPE CLASS III, 300 mm M — — — — — — —	589,520001 M	REMOVAL OF EXISTING STEEL		ļ <u> </u>	-			<u> </u>									-
589.520004 M REMOVAL OF EXISTING STEEL EA —	589.520002 M	REMOVAL OF EXISTING STEEL		-	 			<u> </u>								<u> </u>	
589.520005 M REMOVAL OF EXISTING STEEL EA —	589.520003 M	REMOVAL OF EXISTING STEEL		 				<u> </u>									
590.01M VERTICAL ADJUSTMENT OF BRIDGE DRAINAGE DEVICES EA —		REMOVAL OF EXISTING STEEL		 =	ļ												
603,6001 M REINFORCED CONCRETE PIPE CLASS III, 300 mm	589.520005 M		1														
603,6001 M REINFORCED CONCRETE PIPE CLASS III, 300 mm				+=-	 												
603.T301M REINFORCED CONCRETE PIPE END SECTION 300 mm DIAMETER EA — — — — — — — — — — — — — — — — — —		REINFORCED CONCRETE PIPE CLASS III, 300 mm		 -	 	_=	-										·
	603.7301M	REINFORCED CONCRETE PIPE END SECTION 300 mm DIAMETER	EA		[<u> </u>										
			 	 												 	
			 		 											 	
			 	 	 												
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REG. NO.	STATE	CONTRACT NO.	SHEET	SHEETS
1	N.Y.	D259214	187	432
BRIDGE R	EHABILITA	TION PROJECT ŒLEMENT SI	ECIFIC)	
VARIOUS	BRIDGES O	N INTERSTATE 481		
TOWNS OF	DEWITT	AND CICERO		
ONONDAG	COUNTY			
P.I.N. 305	613	B.I.N. VARIOU	ıs	

ALL DIMENSIONS ARE IN IN UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

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DATE

SHEET 8 OF 12

ESTIMATE OF QUANTITIES



STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

FILENAME REGION DATE DRAWING NO. 305613.11A 3 10/02 QE-38

EST. FINAL EST.	ESTIMATE OF QUANTITIES BY STRUCTURE																
EST, FINAL EST	ITEM *	DESCRIPTION	UNIT	1072	781	10727	82	1072	791	1072	792	1093	510	1093	520	1093	540
SOS.0901 M NOBEORAIN FILTER TYPE	• • • • • • • • • • • • • • • • • • • •			EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL
COST.102 M	605.0901 M	INDERDRAIN FILTER TYPE 1	CM														ļ
SOS.ATOL W CORRUGATED BEAM GUIDE PAILING TRANSITION ASSEMBLY, TWO RAIL, STEEL BRIDGE RAILING EA			M														
16506.30 M TRANSITION BRIDGE RALLING TO BOX BEAM GUIDE RAIL. U			EA														<u> </u>
COUNTY CLASS II TYPE B EROSION CONTROL MATERIAL SU			W														
SI		RESETTING EXISTING CURB	M														
SU		ESTABLISH TURF	1			_==_											
08615.0402 M TREE AND VEGETATION BARRIER		CLASS II TYPE B EROSION CONTROL MATERIAL	1	_==								_===					
STONE FILLING CLIGHT)		TREE AND VEGETATION BARRIER	1-11														
STYOLOGY SURVET AND STANCOON SURVEY AN		STONE FILLING (LIGHT)	 		<u> </u>												
637.03 M CONCRETE CYLINGER CURING BOX 637.0702 M ENGINEER'S OFFICE TYPE C MANTH 10637.2101 M FURN PORTABLE CELLULAR TELEPHONE EQUIP. 15637.51 M CONGO COMPUTER SYSTEM 15637.51 M DIGITAL CAMERA SYSTEM 15637.51 M DIGITAL CAMERA SYSTEM 15637.51 M OLAMPS MANAGEMENT SYSTEM 15637.91 M CHAMPS MANAGEMENT SYSTEM 15637.91 M CHAMPS MANAGEMENT SYSTEM 15637.91 M PARTHERING WORKSHOP 15637.98 M PARTHERING WORKSHOP 15637.91 M SHITE PAINT REFLEC PAVEMENT STRIPES-0.38 mm 1640.10 M WHITE PAINT REFLEC PAVEMENT STRIPES-0.38 mm 17640.11 M YELLOW PAINT REFLEC PAVEMENT STRIPES-0.38 mm 18640.10 M MILLEO IN AUDBLE ROWAY DELINS GALARD) 18650.705 M WHITE PAINT REFLEC PAVEMENT STRIPES UN	625.01 M	SURVEY AND STAKEOUT	 														Г <u> </u>
10637_2101 M FURN PORTABLE CELLULAR TELEPHONE EQUIP. LS	637.03 M	CONCRETE CYLINDER CURING BOX	1											==-			
10837/2101 M				1													
15637.51 M CPM SCHEDUE					 												
15637.51 M DIGITAL CAMERA SYSTEM LS			1	-													
15637.91 M															<u> </u>		
15637.98 M PARTHERING WORKSHOP								1									
15631.98 M			1		 												
640.10 M YELLON PAINT REFLEC PAVEMENT STRIPES-0.38 mm 14646.10 M MILLEO IN AUDIBLE ROWAY DELINS (MIARD) 23675.15M FURNISH AND PLACE STONE BALLAST SURFACING COURSE MT	ſ	 		T	 							4					
640.11 M TELLON PAINT REPLEC PAVEMENT STRUCES ON MILE 14646.10 M MILLED IN AUDIBLE ROWAY DELINS ONTARD OURSE 23675.15M FURNISH AND PLACE STONE BALLAST SURFACING COURSE 91685.0705 M WHT POLYESTER REFLEC PAVEMENT STRUCE 91685.0706 M YEL POLYESTER REFLEC PAVEMENT STRUCE M — — — 3 — — — — — — — — — — — — — — —			1					1_				3					
14046-10 M MILLEU IN ALDIBLE ROWAT DELINS MIGNOF 23675.15M FURNISH AND PLACE STONE BALLAST SURFACING COURSE MT 91685.0705 M WHT POLYESTER REFLEC PAYEMENT STRIPE M 3 91685.0706 M YEL POLYESTER REFLEC PAYEMENT STRIPE M 697.02 M FIELD CHANGE ORDER LS 697.02 M FIELD CHANGE ORDER LS MEC																	
23615.158			· · · · · · · · · · · · · · · · · · ·	 													
91685,0706 M YEL POLYESTER REFLEC PAVEMENT STRIPE M — — — 3 — — — — — — — — — — — — — — —		4 <u>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</u>		—								4					
697.02 M FIELD CHANGE ORDER			N									3					
Le luce luce luce luce luce luce luce luc			LS													<u> </u>	
			LS	HEC		NEC		NEC		NEC		NEC		NEC		NEC	
	699.040001 #	MODIFITY (10)														<u> </u>	L
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REG. NO.	STATE	DOF COA A	SHEET	SHEETS
1	N.Y.	D259214	188	432
BRIDGE R	EHABILIT	ATION PROJECT GLEMENT SPE	CIFIC)	<u> </u>
VARIOUS I	BRIDGES	ON INTERSTATE 481		
TOWNS OF	DEWITT	AND CICERO		
ONONDAGA	COUNTY		****	
P.J.N. 305	613	B.I.N. VARIOUS		

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

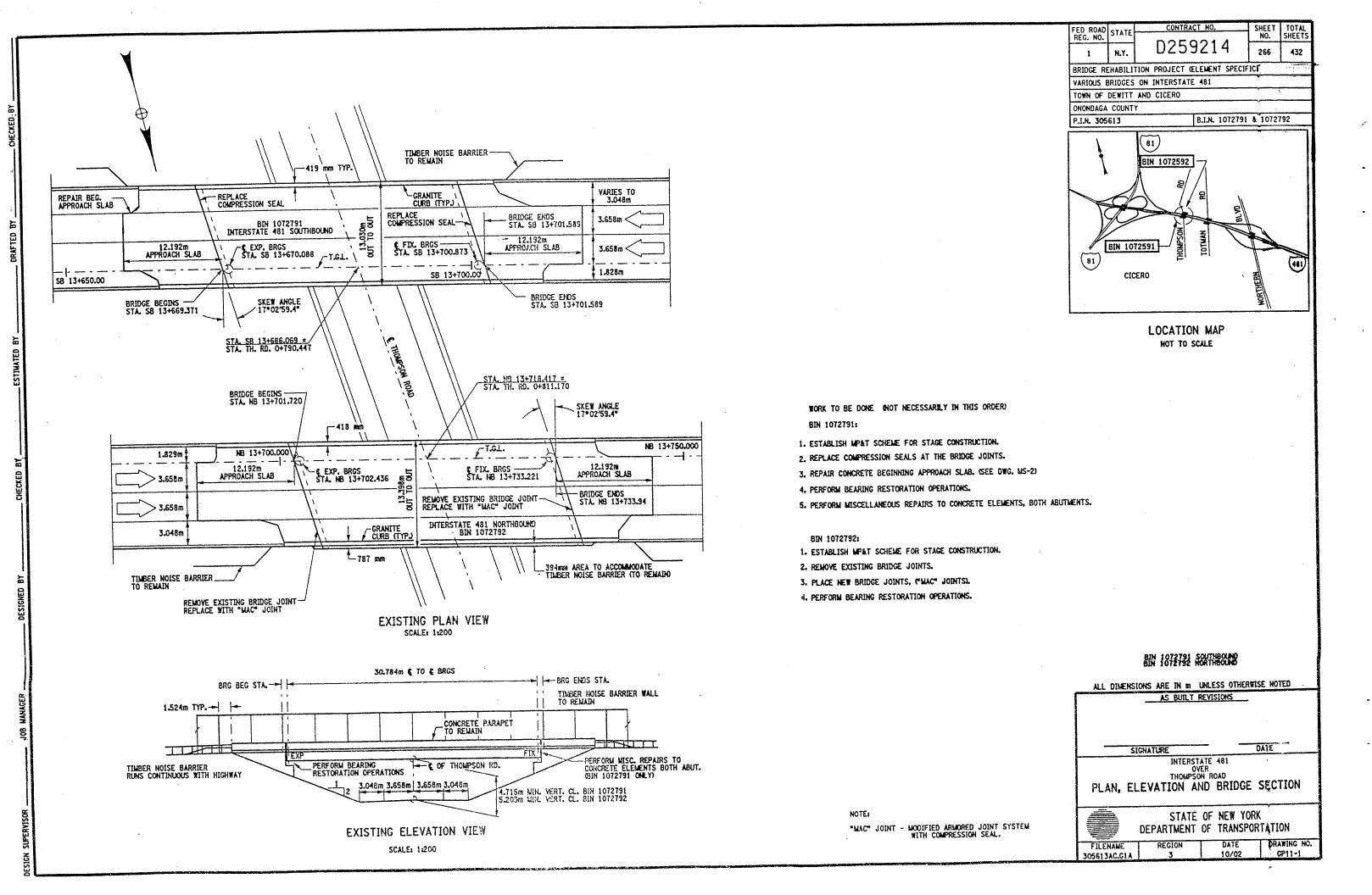
SIGNATURE DATE

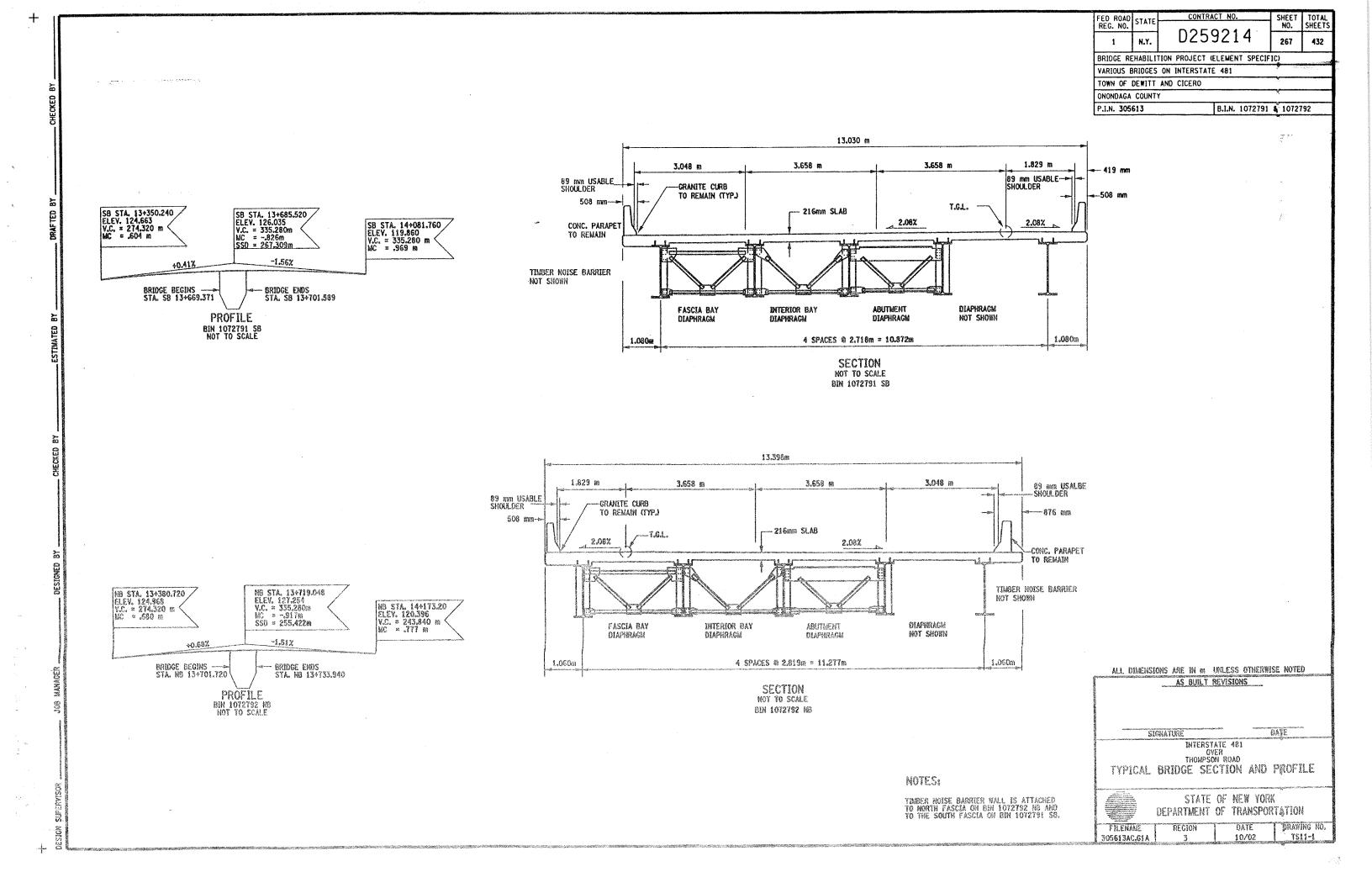
SHEET 9 OF 12 ESTIMATE OF QUANTITIES

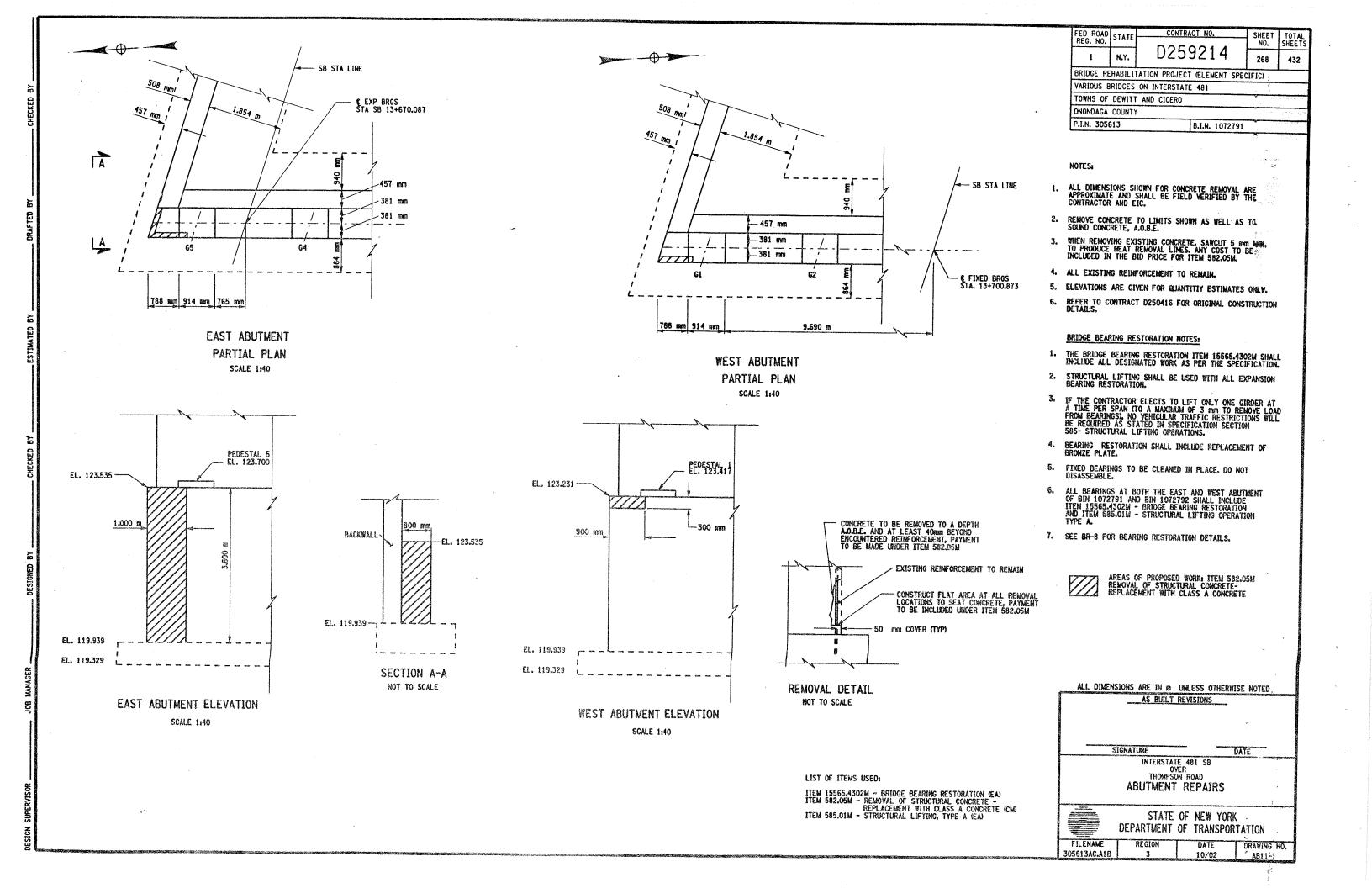


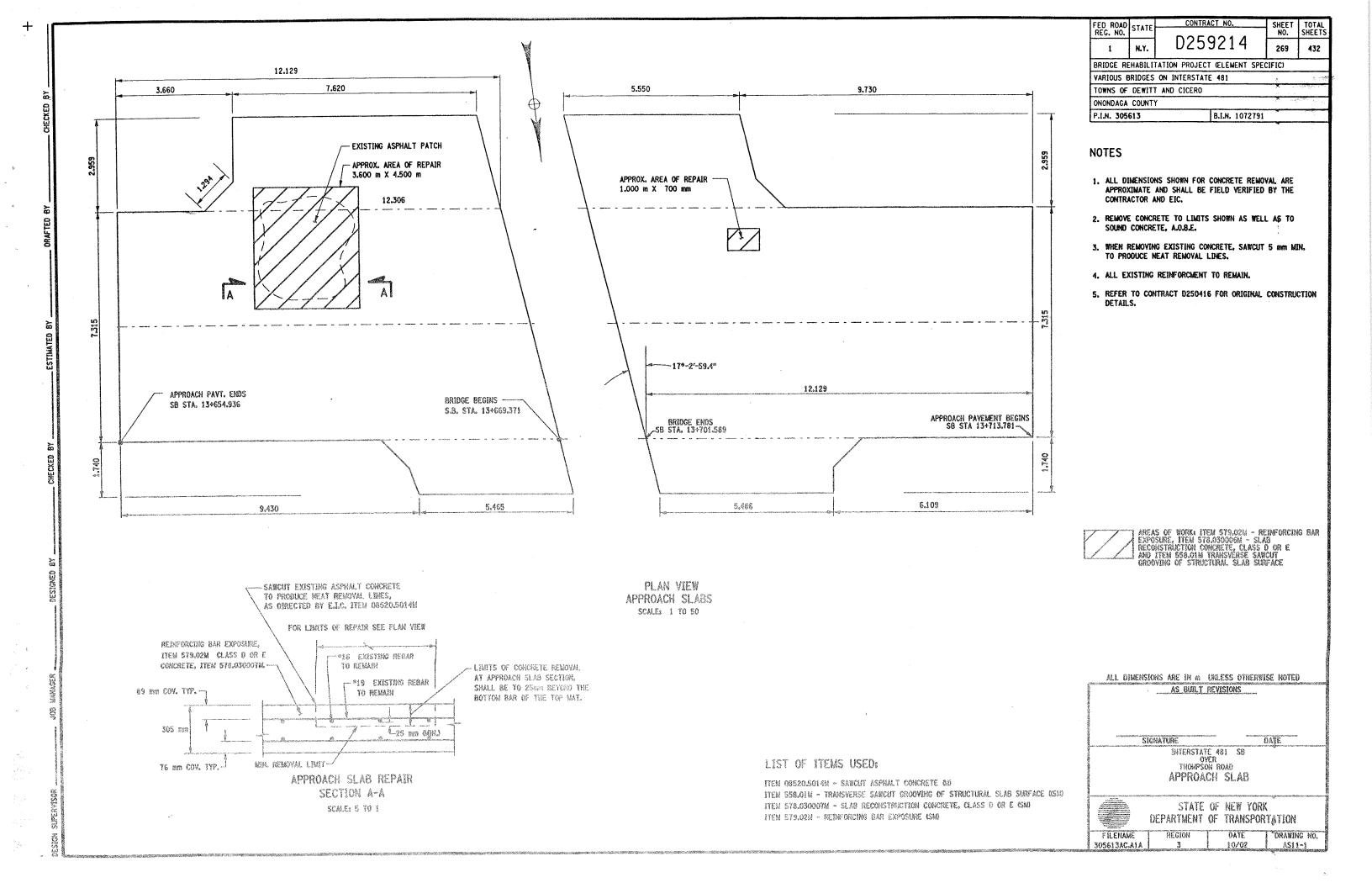
STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

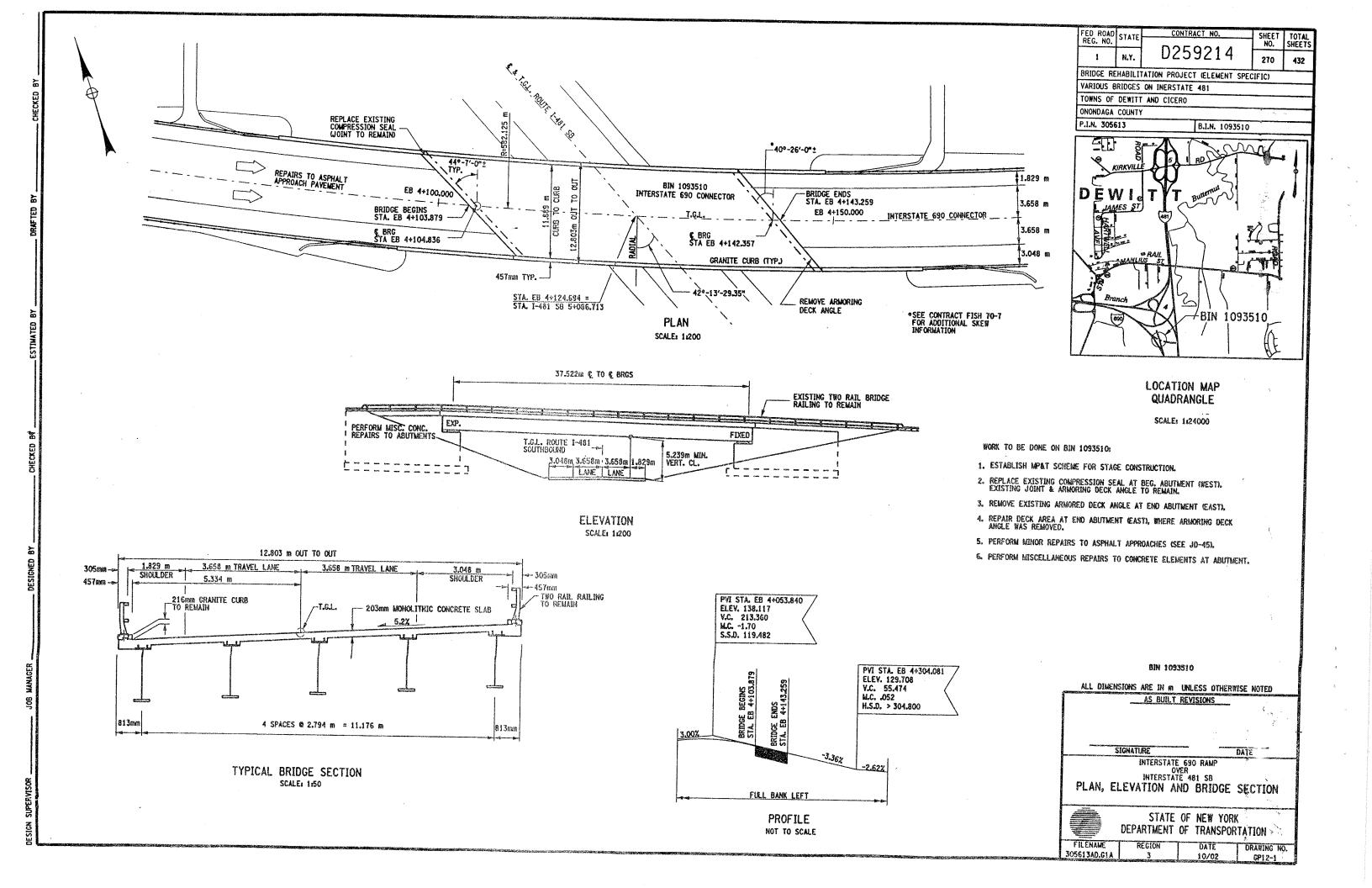
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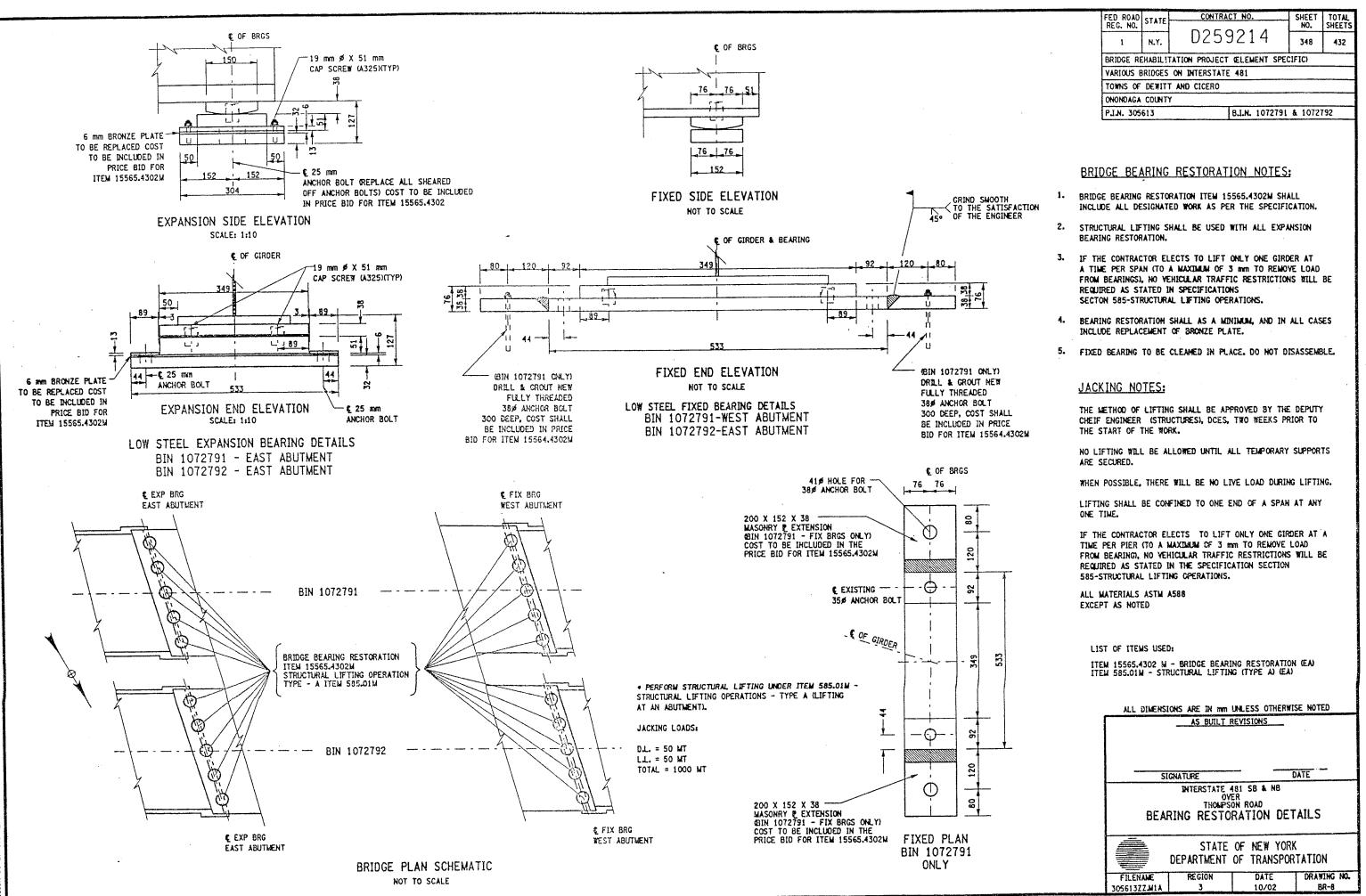












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B.I.N. NUMBER	JOINT LOCATION	JOINT SKEW	SPAN(S) LENGTH FOR JOINT	JO: BE LOC	ND	EXISTING JOINT	PROPOSED JOINT TYPE	CURB TO CURB DISTANCE (METERS)	FASCIA & MEDIAN LENGTH	TOTAL LENGTH (METERS)	JOINT ITEM NUMBER(S)	SECT	RAWING NUM	FASCIA
1101110211			(METERS)	RT	LT	TYPE		(SEE NOTES)	(METERS)			VIEW	VIEW	DETAIL
	·													
														
4070570	EAST ABUT.	0°-00'-00"	33.528	N	N	ACJ	MAC-5	15.850	.457/.457	16.764	567.35M	JD-30	JD-29	JD-30
1072530	WEST ABUT.	0°-00'-00"	37.795	N	N	ACJ	MAC-5	15.850	.457/.457	16.764	567.35M	JD-30	JD-29	JD-30
	WEST ABOT.	0*-00-00	31.133											
1072571	SOUTH ABUT.	20°-29′-45.2"	44.196	N	N	ACJ	MAC-6	14.481	.488/.488	15.457	567.36M	JD-32	JD-31	JD-32
1012011	NORTH ABUT.	20°-29′-45.2"		N	Ν .	ACJ	MAC-1	15.456	.488/.488	16.428	567.31M	JD-32	JD-31	JD-32
	`					161					F67.7611		·	
1072572	SOUTH ABUT.	21°-09′-2.1"	44.196	N	N	ACJ	MAC-6	12.746	.490/.490	13.726	567.36M	JD-34	JD-33	JD-34
	NORTH ABUT.	21°-09′-2.1"		N	N	ACJ	MAC-1	12.746	.490/.490	13.726	567.31M	JD-34	JD-33	JD-34
						101)// E	11.017	.458/.458	12.833	567.35M	JD-36	JD-35	JD-36
1072581	SOUTH ABUT.	3°59′-27.5"	37.033	N	N	ACJ	MAC-5 MAC-1	11.917	.458/.458	12.833	567.31M	JD-36	JD-35	JD-36
	NORTH ABUT.	3°-59′-27.5"		N	N ·	ACJ	MAC-1	11,511	.4307.430	12.000	301331W	00.30	00.33	00 30
1070500	SOUTH ABUT.	3°-51′-57.9"	37.033	N	N	ACJ	MAC-5	11,915	.458/.458	12.831	567.35M	JD-38	JD-37	JD-38
1072582	NORTH ABUT.	3°-51′-57.9"	31.033	N	N	ACJ	MAC-1	11.915	.458/.458	12.831	567.31M	JD-38	JD-37	JD-38
	NONTH ADDI.	3 31 31.3												
1072781	EAST ABUT.	16°-26'-24"		N	. N	ACJ	MAC-1	12.500	.530/.530	13.560	567.31M	JD-40	JD-39	JD-40
1012101	WEST ABUT.	16°-26′-24"	33.635	N	N	ACJ	MAC-5	12.500	.530/.530	13.560	567.35M	JD-40	JD-39	JD-40
							-				·			
1072782	EAST ABUT.	16°-26′-24"		N	N	ACJ.	MAC-1	13.183	.530/.530	14.243	567.31M	JD-42	JD-41	JD-42
	WEST ABUT.	16°-26′-24"	31.394	N	N	ACJ	MAC-5	12.589	.530/.530	13.649	567.35M	JD-42	JD-41	JD-42
											10507.041	15. 47	15 47	10.47
1072791	EAST ABUT.	17°-02′-59.4"	30.785	N	N	ACJ	RCS	12.566	.531 /.531	13.628	16567.64M	JD-47	JD-43	JD-47 JD-47
	WEST ABUT.	17°-02′-59.4"		N	N	ACJ	RCS	12.566	.531/.531	13.628	16567.64M	JD-47	JD-43	JU-41
				 	 	101	140.5	12 500	.530/.530	14.015	567.35M	JD-44	JD-43	JD-44
1072792	EAST ABUT.	17°-02′-59.4"	30.785	N	N	ACJ	MAC-5	12.566 12.566	.530/.530	14.015	567.31M	JD-44	JD-43	JD-44
	WEST ABUT.	17°-02′-59.4"		N	N -	ACJ	MAC-1	12.300	*3307*330	17,013	J01.J1M	דר עט	00 45	
4007540	WEST ADJIT	440.074.000			N	ACJ/ADA	RCS	16.560	.637/.637	17.834	16567.64M	JD-46	JD-45	JD-46
1093510	WEST ABUT.	44°-07′-00"	37.522	N	N	ADA	RADA	15.620		15.620		JD-46	JD-45	
	EAST ADUI.	4020-00	31.322	N	14	NUN.	10.54	101010						
				1	1	1								

INFORMATIONAL NOTES:

BIN 1072530 - NO JOINT AT PIER.

BIN 1072791 - REPLACE COMPRESSION SEALS BEG. ABUT. ŒAST), TYPE A-5 END ABUT. (WEST), TYPE A-1

FOR JOINT DETAILS REFER TO THE FOLLOWING DRAWINGS;

DWG. NO. JD-1 - MODIFIED ARMORED COMPRESSION SEAL JOINT SYSTEM.
DWG. NO. JD-24 - ONE-CELL MODULAR JOINT SYSTEM.
DWG. NO. JD-25 - TWO-CELL MODULAR JOINT SYSTEM.

LIST OF BRIDGE JOINT ITEMS USED:

TIEM 566.01M - MOOULAR EXP. JOINT SYSTEM ONE-CELL QUITEM 566.02M - MOOULAR EXP. JOINT SYSTEM TWO-CELL QUITEM 567.31M - MOOIFIED ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A1 (m) ITEM 567.35M - MOOIFIED ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A2 (m) ITEM 567.35M - MOOIFIED ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A5 (m) ITEM 567.35M - MOOIFIED ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A6 (m) ITEM 16567.640001M - REPLACE COMPRESSION SEAL FOR EXISTING BROCE JOINTS (m)

FED ROAD REG. NO.	STATE	CONTRA	CT NO.		SHEET	TOTAL
1	N.Y.	D259	9214	1	NO. 362	SHEETS 432
BRIDGE RE	HABILI	TATION PROJECT	(ELEMEN	T SPE	CIFIC)	
VARIOUS E	RIDGES	ON INTERSTATE	481			
TOWNS OF	DEWIT	AND CICERO			************	
ONONDAGA	COUNT	Y				
P.I.N. 305	613		B.I.N. AL	L BINS	5	
303			Ottor AL	- 01110		

LEGEND

EXISTING JOINT TYPE:

ACJ = ARMORED COMPRESSION JOINT SYSTEM = MODULAR JOINT SYSTEM MOD

= MODIFIED ARMORED COMPRESSION SYSTEM (NO HORIZ. ARMORING ANGLE)

= ARMORED DECK ANGLE SS = STRIP SEAL JOINT

OPEN = OPEN JOINT

PROPOSED JOINT TYPE:

MAC-1 = MOD. ARM./COMP. SEAL JT. SYS. (A-1) MAC-2 = MOD. ARM./COMP. SEAL JT. SYS. (A-2) MAC-5 = MOD. ARM./COMP. SEAL JT. SYS. (A-5) MAC-6 = MOD. ARM./COMP. SEAL JT. SYS. (A-6)

RCS = REPLACE EXISTING COMPRESSION SEAL RADA = REMOVE ARMOR DECK ANGLE

MOD-1 = MODULAR JT. SYS. (ONE-CELL) MOD-2 = MODULAR JT. SYS. (TWO-CELL)

JOINT BEND LOCATION:

N = NO BENDS CRB = CURB LINE PAV'T = PAVEMENT

GENERAL NOTES:

- ALL MEASUREMENTS SHALL BE FIELD VERIFIED.
- CURB TO CURB LENGTHS ARE MEASURED ALONG & OF JOINT.
- MULTIPLE DIMENSIONS ARE SHOWN LOOKING UP-STATION, LEFT TO RIGHT.
- ALL DIMENSIONS ARE SHOWN IN METERS.

ALL	DIMENSIONS	ARE	îN	m	UNLESS	OTHERWISE	NOTED	
		AS	BU	LT	REVISION	iS		

INTERSTATE 481 VARIOUS BRIDGES

BRIDGE JOINT TABLE

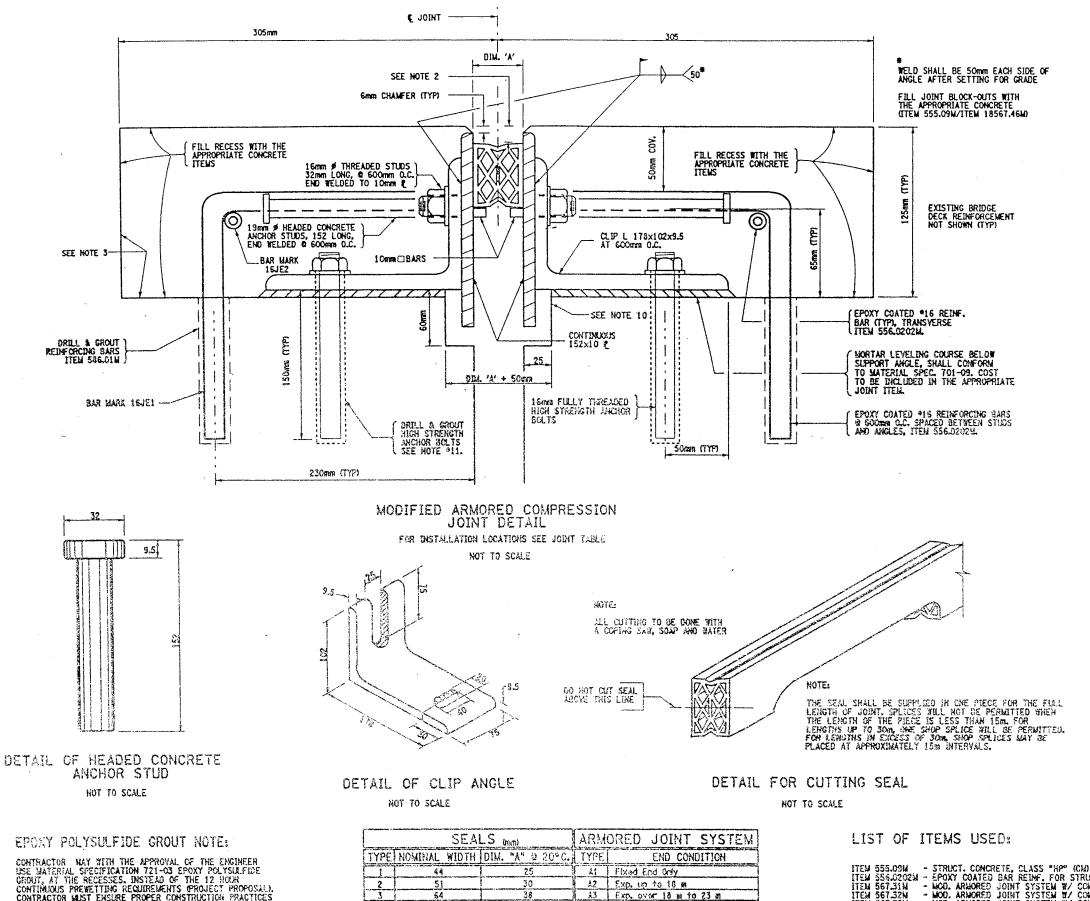


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STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION

DATE

FILENAME 305613AJ.JA1



CONTRACT NO. FED ROAD SHEET NO. TOTAL REG. NO. N.Y. 365 432 BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC) VARIOUS BRIDGES ON INTERSTATE 481 TOWNS OF DEWITT AND CICERO ONONDAGA COUNTY P.I.N. 305613 B.I.N. ALL BIN'S

GENERAL NOTES:

- 1. THE TEMPERATURE OF THE BRIDGE MUST BE TAKEN ON THE STRUCTURAL STEEL SURFACE TO DETERMINE THE TEMPERATURE CORRECTION FOR THE JOINT OPENINGS.
- 2. THIS DEPTH SHALL BE INDICATED ON THE SHOP DRAWINGS AND SHALL BE SUCH THAT WHEN THE SEAL IS COMPRESSED TO 50% OF ITS NORMAL WIDTH, THE TOP OF THE SEAL SHALL BE HOT LESS THAN 6mm NOR MORE THAN 19mm BELOW THE TOP OF THE ROADWAY.
- 3. RECESSES RECEIVING ITEM 555.09M. AFTER SURFACE PREPARATION, THOROUGHLY WET THE CONCRETE SURFACE AND ALL POROUS SURFACES TO BE IN CONTACT WITH NEW CONCRETE, FOR 12 HOURS, NOTE THE USE OF MATERIAL SPECIF. 705-22 PORTLAND CEMENT MORTAR BONDING GROUT HAS BEEN ELIMINATED, SEE INSERT IN PROJECT
- 4. A WATER-TIGHT INTEGRITY TEST SHALL BE PERFORMED BY THE CONTRACTOR AT ALL COMPRESSION SEAL JOINT INSTALLATIONS. THE FOLLOWING TEST PARAMETERS SHALL BE INCORPORATED IN THE TEST:
 - A 15 MEMUTE MINIMUM PERIOD OF STANDING WATER, WITH A 25mm MINIMUM DEPTH SHALL BE USED.
 - IN ADDITION, IN LOCATIONS OF COPED AREAS OF THE SEAL, BENDS, ETC., HATER PRESSURE SHALL BE APPLIED, TO THE SATISFACTION OF THE EIC FOR A 15 MINUTE PERICO.
 - 3. LIMITS OF TEST AREA SHALL BE FROM FACE OF CURB TO FACE OF CURB ON THE DECK SURFACE.
- 5. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR THE JOINT IF, IN THE OPINION OF THE ENGINEER, THE INSTALLED JOINT LEAKS WITHIN THE 15
- S, PRIOR TO THE START OF BORK AT EACH JOINT, THE CONTRACTOR SHALL SUBMIT A WRITTEN PLAN FOR THE SPECIFICS OF THE TESTENG, INCLUDING CONTAINMENT OF THE BATER AND THE METHOD TO BE USED FOR ACCESS BY THE ELIC. TO THE BOTTOM OF THE JOINT BEING TESTED.
- 7. THE COST OF ALL LABOR, EQUIPMENT AND MATERIALS REQUIRED FOR THE TESTING WHICH INCLUDES. BUT IS NOT LIMITED TO:
 - 1. A CONTAINMENT SYSTEM FOR THE TEST WATER.
 - PROVISIONS FOR ELLC. ACCESS TO THE BOTTOM OF THE JOINT. SHALL BE DICLUDED IN THE PRICE BID FOR THE RESPECTIVE JOINT ITEMS.
- 8. THE COST OF ALL LABOR, EQUIPMENT, AND WATERIALS TO INSTALL THE NEW JOINT SHALL SE INCLUDED IN THE UNIT PRICE BID FOR THE APPROPRIATE JOINT ITEM.
- 9. MORTAR LEVELING COURSE SHALL CONFORM TO MATERIAL SPECIFICATION 701-09 AND SHALL BE INCLUDED IN THE PRICE BID FOR THE APPROPRIATE JOINT ITEM.
- 10. THE DIMENSIONS OF THE SEMOVAL AREA LANGER THE 152×10 PLATES ARE SHOWN TO ALLOW SPACE FOR THE PLATES TO REST FREELY. IF THERE IS ALREADY ADEQUATE SPACE, NO CONCRETE REMOVAL OR REPLACEMENT IS REQUIRED IN
- 11. 16 mm # ASIM ABONG MICHOR BOLT TO SE DRILLED AND GROUTED IN PLACE IN ACCORDANCE WITH THE REGIREMENTS OF SUB-SECTION 526-3.02. GROUTING MATERIALS SHALL BE IN ACCORDANCE WITH MATERIALS SUB-SECTION 701-07 ANCHORING MATERIALS-CHEMICALLY CURING, HOLES TO BE ORILLED TO THE DIAMETER AND DEPTH RECOMMENDED BY THE MAMPACTURER OF THE GROUTING MATERIAL GIM. DEPTH OF 150 mm). THE COST OF THE ANCHORS, INCLUDING ORILLING AND GROUTING, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE APPROPRIATE JOINT SYSTEM ITEM.
- 12. IT IS DESIRABLE TO HAVE THE ARMORED JOINT WITH ITS COMPRESSION SEAL ASSEMBLED IN THE SHOP AND DELIVERED TO THE JOB SITE ALL SET FOR HISTALLATION IN ITS PREFORMED RECESS IN THE STRUCTURAL SLAB, IN CASES WHERE THE ARMORED JOINT CANNOT BE ASSEMBLED IN THE SHOP, DUE TO ITS EXCESSIVE LENGTH CAUSING SHIPPING PROBLEMS, THE JOINT SHALL BE SEALED WITH THE COMPRESSION SEAL BEFORE THE STRUCTURE IS OPENED TO TRAFFIC INCLUDING CONSTRUCTION TRAFFIC, AND REFORE DIS CONTIBULING OPERATIONS WHEN MORK IS SUSPENDED DUTUNG THE WINTER.

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED AS BUILT REVISIONS

SIGNATURE DATE

INTERSTATE 481

COMPRESSION SEAL JOINT DETAILS



STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION

FILENAME DRAWING NO. REGION 305613AJ.JA1 10/02 JD-1

ITEM 555.09M - STRUCT. CONCRETE, CLASS "HP" (CM)
ITEM 555.0202M - EPOXY COATED BAR REIMF, FOR STRUCT. MOD
ITEM 567.31M - MOD. ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A1 (m)
ITEM 567.32M - MOD. ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A2 (m)
ITEM 567.35M - MOD. ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A5 (m)
ITEM 567.36M - MOD. ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A6 (m)
ITEM 5857.46M - ELASTOMARIC CONC. FOR BRIDGE JT. SYSTEMS (MO)
ITEM 586.01M - DRILL & GROUT REIMF. BARS (mm)

Fixed End - No Limit Exp. End - 45° A2 thru A6 Moximum Skew Limites

76

89

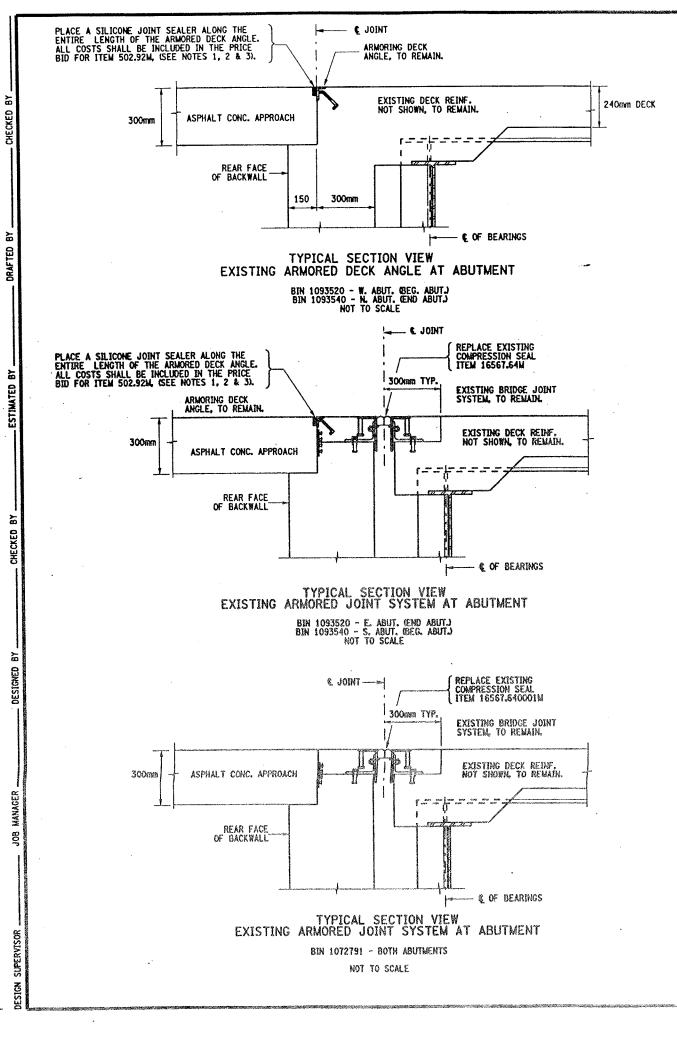
14 | Exp. over 23 m to 27 m A5 Exp. over 27 in to 38 m A6 Exp. over 38 m to 46 m

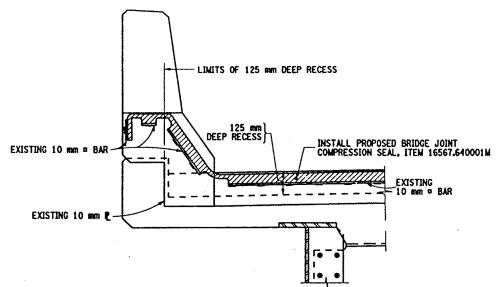
60

LONINATION AND THE APPROVAL OF THE ENGINEER USE MATERIAL SPECIFICATION 721-03 EPOXY POLYSULFIDE GROUT, AT THE RECESSES, INSTEAD OF THE 12 HOUR CONTINUOUS PREWETTING REQUIREMENTS PROJECT PROPOSAL). CONTRACTOR MUST ENSURE PROPER CONSTRUCTION PRACTICES ARE FOLLOWED WHEN USING THIS GROUT, THE USE OF EPOXY POLYSULFIDE GROUT SHALL BE AT NO ADDITIONAL COST TO

: *4**

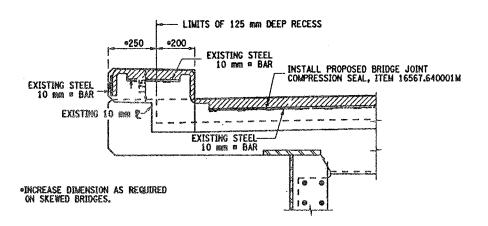
1000





PROPOSED JOINT SEAL TYPICAL (CONCRETE PARAPET)

BIN 1072791 - REPLACE SEAL AT BOTH ABUTMENTS NOT TO SCALE



PROPOSED JOINT SEAL TYPICAL (BRUSH CURB)

BIN 1093520 - EAST ABUTWENT BIN 1093540 - SOUTH ABUTWENT NOT TO SCALE

LIST OF ITEMS USED:

ITEM 502.92M - SEALING TRANSVERSE JOINTS GAD ITEM 16567.640001M - REPLACE COMPRESSION SEAL FOR EXISTING BRIDGE JOINT GAD

FED ROAD STATE		CONTRACT NO.	SHEET	TOTAL
		D2E0244	NO.	SHEETS
1	N.Y.	D259214	411	432
BRIDGE RE	CIFIC)			
VARIOUS E	RIDGES	ON INTERSTATE 481		
TOWNS OF	DEWIT	AND CICERO		
ONONDAGA	COUNT	1		
P.I.N. 305	613	B.I.N. VARIOUS		

DETAILS ON THIS SHEET PERTAIN TO BIN'S 1072791, 1093520 & 1093540.

NOTES:

- 1) TO SEAL THE INTERFACE BETWEEN THE EXISTING ASPHALT APPROACH AND THE EXISTING ARMOR DECK ANGLE, USE A SILICONE JOINT SEALER FROM THE MATERIALS BUREAU
- 2) THE SILICONE JOINT SEALER SHALL BE PLACED TRANSVERSELY FOR THE ENTIRE LENGTH OF THE ARMORED DECK ANGLE.
- 3) PRIOR TO PLACEMENT OF THE SILICONE JOINT SEALER THE AREA SHALL BE CLEANED AND FREE OF ANY LOOSE MATERIAL TO THE SATISFACTION OF THE ENGINEER.
- 4) REFER TO DWG. NO. JT-2 AND JT-3 FOR ADDITIONAL INFORMATION.
- 5) NO PLAN VIEW SHOWN FOR THESE STRUCTURES.
- 6) REFER DWG. NO. JD-43, FOR ADDITIONAL INFORMATION BIN 1072791.

WORK TO BE DONE:

BIN 1072791 -

REPLACE EXISTING COMPRESSION SEALS AT BOTH ABUTMENTS. BEG. ABUT. (WEST) EXISTING TYPE A-1 ARMORED JOINT SYSTEM END ABUT. (EAST) EXISTING TYPE A-5 ARMORED JONIT SYSTEM

BIN 1093520 -

BEG. ABUTMENT (WEST ABUT.) - EXISTING ARMORED DECK ANGLE, TO REMAIN. PLACE SILICONE SEALER MATERIAL.

END ABUTMENT (EAST ABUT.) - EXISTING TYPE A-5 ARMORED JOINT SYSTEM WITH COMPRESSION SEAL AND ARMORED DECK ANGLE TO REMAIN. REPLACE COMPRESSION SEAL AND PLACE SILICOME SEALER MATERIAL.

BIN 1093540 -

BEG. ABUTMENT COUTH ABUTJ - EXISTING TYPE A-5 ARMORED JOINT SYSTEM WITH COMPRESSION SEAL AND ARMORED DECK ANGLE TO REMAIN. REPLACE COMPRESSION SEAL AND PLACE SILICONE SEALER MATERIAL.

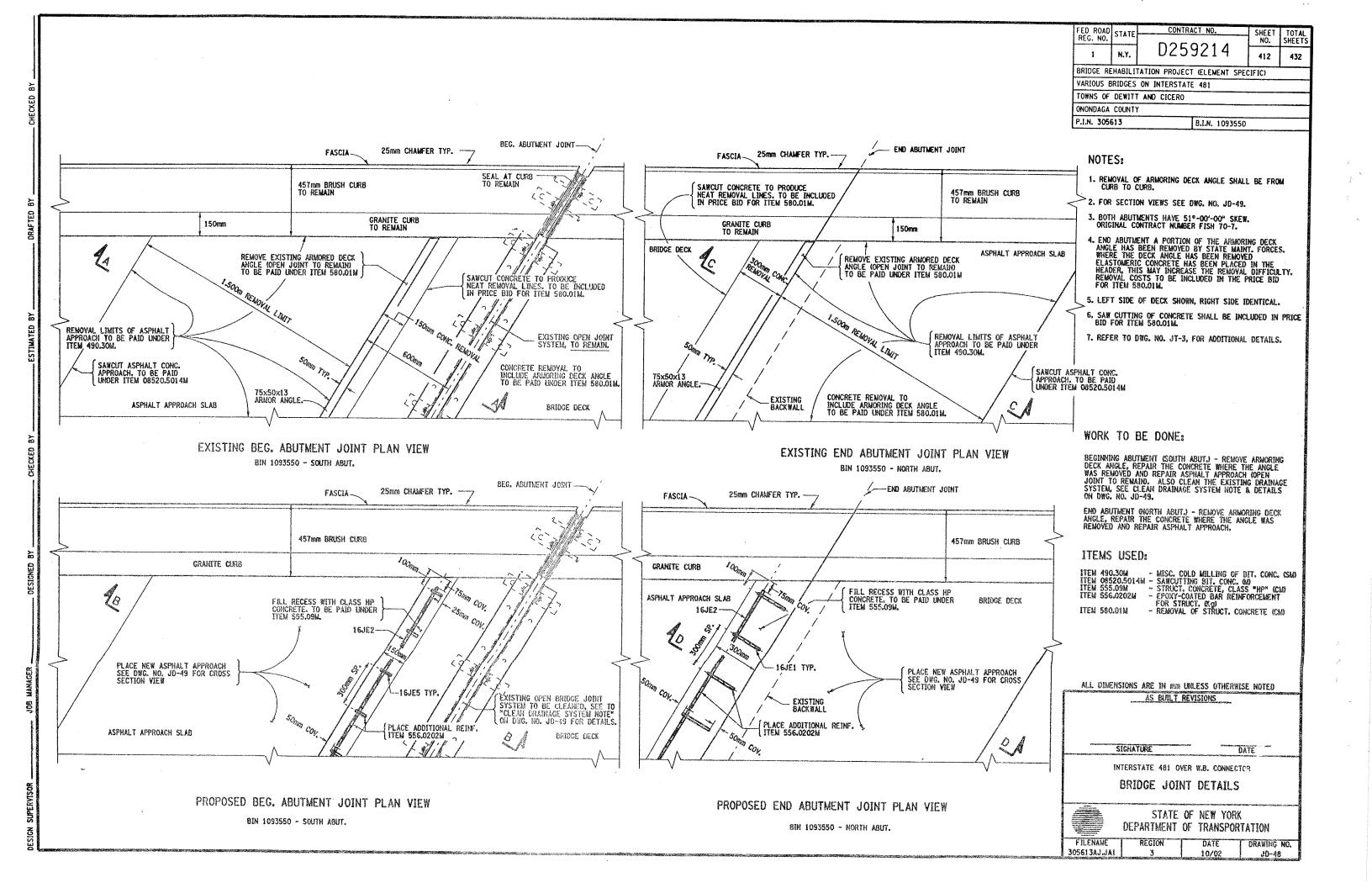
END ABUTMENT ONORTH ABUT.) - EXISTING ARMORED DECK ANGLE, TO REMAIN. PLACE SILICONE SEALER MATERIAL.

TIMBER BARRIER:

BIN 1072791 SB - SOUTH FASCIA CLEFT SIDE) PARAPET HAS A TIMBER HOISE BARRIER ATTACHED TO THE BACK SIDE OF THE PARAPET. THIS TIMBER HOISE BARRIER TO REMAIN IT MAY BE MCCESSARY TO TEMPORABILY REMOVE THE SUPPORT BRACKETS TO FACILITATE INSTALLATION OF THE PROPOSED BRIDGE JOINT

ANY ADDITIONAL SUPPORT TO THE TIMBER MOISE BARRIER
DEEMED NECESSARY BY THE ENGINEER, DURING THIS REMOVAL
OF THE SUPPORT BRACKETS SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 16567.640001M.

C-71_BEGS () .2 .203	CALL MAN AND MAN	OUTE 32 OILEUMI	JE MUTEU
	AS BUILT	REVISIONS	
	GNATURE	renovara sometiment	DATE
	WIND I WIN		/A : C
1~690 FR R	AMP TO 1-ART ME	3 & I-481 OVER	เทษาย์ เพษาย์
1 1030 EU W		ER 1-481 SB	HOW JUN ND
1	RIDGE JOI	NT DETAILS	
1	11.2% AF AF	IVI E/bs (ME)s W	
	Antonia estato esta la la companio de la companio	CONTRACTOR	
	STATE	OF NEW YORK	
		p	
	ULPAKIMENI	OF TRANSPOR	IAIIUN
FILENAME	REGION	DATE	DRAWING NO.
	7	1	
1 305613AJJJA1	. 3	10/02	JD-47





BIN 1072792

I-81 (Former I-481) NB over Thompson Road

BIN 1072792

Location: I-481 NB over Thompson Road NYSDOT D031085 PIN 3501.60 - I-81 Viaduct Replacement or New Urban Arterial City of Syracuse, Onondaga County Bridge Asbestos Assessment Results

No asbestos containing materials have been identified on this bridge.

The following summarizes the results of the most recent asbestos survey and record plan review.

Watts Inspection Findings (December 2013)

A bridge inspection was completed on 12/9/2013 and the following suspect ACMs were identified and sampled:

- Grey masonry paint
- Bearing pad
- Grey caulk on fence at top of sidewall

None of these materials came back positive for asbestos.

Review of Bridge Record Plans

Record plans (D250416, D259214) were reviewed in support of the field survey. Type D waterstop was identified, however, NYSDOT no longer considers this a suspect material. As a result, there were no suspect ACMs identified.

Previous Survey Results

A previous asbestos survey competed by LaBella in 2001 was reviewed in support of this project. No asbestos containing materials were identified.

No additional sampling and materials testing is required for this structure.



Watts Architecture & Engineering

BRIDGE ASBESTOS FIELD INSPECTION FORM

12-9-13 Part Top/Part Below BIN 1072792-48INB over Thompson Inspection Date: BIN Number/Location: Project Name: : I-81 Viaduct Replaçement or New Urban Arterial PIN Number: PIN: 3501.60, D031085 Watts Project No: 13092 Inspector(s): Field Inspection Checklist Item Girder Paint NA Truss Paint NA × 1-3 Abutment Coating Paint Abutment Caulk NA 0 B. 1 Abut. Exp. Jt. Filler NA Headwall Sheet Packing NA

✓ 4-6 Bearing Pad Transite Pipe NA Pipe Coating/Wtr. Proof Scupper Wtr. Proof NA Real North Dum Dum Paint NA 7-9 X Deck Caulk 9 Deck Exp. Jt. Filler NA Approach Sheet Packing Railing Paint NA Railing Caulk NA Sidewalk Caulk NA Lighting Pole Caulk VA X Masonry Castings NA X Miscellaneous Tar MA T Utilities NA Other Other Other Other Other SAMPLE LOCATION PLAN VIEW - N.T.S. Notes: . No paint on steel under deck top sidewall



EMSL Analytical, Inc.

490 Rowley Road, Depew, NY 14043

Phone/Fax: (716) 651-0030 / (716) 651-0394

buffalolab@emsl.com http://www.EMSL.com

EMSL Order: CustomerID: CustomerPO:

ProjectID:

141400420 WATT50A

Attn: Scott Matthews **Watts Architecture & Engineering** 2610 Salina Street Syracuse, NY 13205

Phone: (315) 443-8611 Fax: (315) 443-8605 Received: 02/04/14 10:10 AM

Analysis Date: 2/9/2014 Collected: 12/9/2013

Project: 13092 - 181 Viaduct Replacement or New Urban Arterial Bin 1072792 - 481 NB Over Thompson

Test Report: Asbestos Analysis of Bulk Material

		Analyzed		Non Asbe	stos	
Test	t	Date	Color	Fibrous	Non-Fibrous	Asbestos
Sample ID	1072792-1 141400420-0001		Description Homogeneity	off white/grey masonry paint Heterogeneous		
PLM NYS 19	98.1 Friable					Not Analyzed
PLM NYS 1	98.6 VCM					Not Analyzed
PLM NYS 1	98.6 NOB	2/7/2014	Gray			Inconclusive: None Detected
TEM NYS 1	98.4 NOB	2/9/2014	Gray			None Detected
Sample ID	1072792-2 141400420-0002		Description Homogeneity	off white/grey masonry paint Heterogeneous		
PLM NYS 19	98.1 Friable					Not Analyzed
PLM NYS 1	98.6 VCM					Not Analyzed
PLM NYS 1	98.6 NOB	2/7/2014	Various			Inconclusive: None Detected
TEM NYS 1	98.4 NOB	2/9/2014	Various			None Detected
Sample ID	1072792-3 141400420-0003		Description Homogeneity	off white/grey masonry paint Homogeneous		
PLM NYS 19	98.1 Friable					Not Analyzed
PLM NYS 1	98.6 VCM					Not Analyzed
PLM NYS 1	98.6 NOB	2/7/2014	Gray			Inconclusive: None Detected
TEM NYS 1	98.4 NOB	2/9/2014	Gray			None Detected
Sample ID	1072792-4 141400420-0004		Description Homogeneity	black bearing pad Homogeneous		
PLM NYS 19	98.1 Friable					Not Analyzed
PLM NYS 1	98.6 VCM					Not Analyzed
PLM NYS 1	98.6 NOB	2/7/2014	Black			Inconclusive: None Detected
TEM NYS 1	98.4 NOB	2/9/2014	Black			None Detected
Sample ID	1072792-5 141400420-0005		Description Homogeneity	black bearing pad Homogeneous		
PLM NYS 19	98.1 Friable					Not Analyzed
PLM NYS 1	98.6 VCM					Not Analyzed
PLM NYS 1	98.6 NOB	2/7/2014	Black			Inconclusive: None Detected
TEM NYS 1	98.4 NOB	2/9/2014	Black			None Detected



EMSL Analytical, Inc.

490 Rowley Road, Depew, NY 14043

Phone/Fax: (716) 651-0030 / (716) 651-0394

buffalolab@emsl.com http://www.EMSL.com

EMSL Order: CustomerID: CustomerPO:

ProjectID:

141400420

WATT50A

Test Report: Asbestos Analysis of Bulk Material

Non Asbestos

				NOn	ASDESIOS	
Test	t		Color	Fibrous	Non-Fibrous	Asbestos
Sample ID	1072792-6		Description	black bearing pad		
	141400420-0006		Homogeneity	Homogeneous		
PLM NYS 19	98.1 Friable					Not Analyzed
PLM NYS 1	98.6 VCM					Not Analyzed
PLM NYS 1	198.6 NOB	2/7/2014	Black			Inconclusive: None Detected
TEM NYS 1	198.4 NOB	2/9/2014	Black			None Detected
ample ID	1072792-7		Description	grey caulk on fence at top	of side wall	
	141400420-0007		Homogeneity	Homogeneous		
LM NYS 19	98.1 Friable					Not Analyzed
PLM NYS 1	98.6 VCM					Not Analyzed
PLM NYS 1	198.6 NOB	2/7/2014	Gray			Inconclusive: None Detected
TEM NYS 1	198.4 NOB	2/9/2014	Gray			None Detected
ample ID	1072792-8		Description	grey caulk on fence at top	of side wall	
	141400420-0008		Homogeneity	Homogeneous		
LM NYS 19	98.1 Friable					Not Analyzed
PLM NYS 1	98.6 VCM					Not Analyzed
PLM NYS 1	198.6 NOB	2/7/2014	Gray			Inconclusive: None Detected
TEM NYS 1	198.4 NOB	2/9/2014	Gray			None Detected
ample ID	1072792-9		Description	grey caulk on fence at top	of side wall	
	141400420-0009		Homogeneity	Homogeneous		
LM NYS 19	98.1 Friable					Not Analyzed
PLM NYS 1	98.6 VCM					Not Analyzed
PLM NYS 1	198.6 NOB	2/7/2014	Gray			Inconclusive: None Detected
	198.4 NOB	2/9/2014	Gray			None Detected

Analyst(s)

Rachel Giese

Rhonda McGee

Rhonda McGee, Laboratory Manager or other approved signatory

NOB = Non Friable Organically Bound N/A = Not Applicable VCM = Vermiculite Containing Material

-In New York State, TEM is currently the only method that can be used to determine if NOB materials can be considered or treated as non-asbestos containing. All samples examined for the presence of vermiculite when analyzed via NYS 198.1.

-NYS Guidelines for Vermiculite containing samples are available at http://www.wadsworth.org/labcert/elapcert/forms/VermiculiteInterimGuidance_Rev070913.pdf EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples were received in good condition unless otherwise noted.

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. This report may contain data that is not covered by the NVLAP accreditation.

Samples analyzed by EMSL Analytical, Inc. Depew, NY NYS ELAP 11606

WATTS ARCHITECTURE & ENGINEERING, P.C.	
ASBESTOS BUILK SAMPLE CHAIN-OF-CUSTODY	

141400420

ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY		Date:	12-9-13
C&S / DOT	Watts Project No.:	13092	
181 Viaduct Replacement or New Urban Arterial	Turnaround Requested:	3 Hr.	48 Hr.

Project: Building / Location: at (315) 443-8611 BIN 1072792 Analysis Requested: 6 Hr. 72 Hr.

5 Day week Contact: Scott Matthews PLM X TEM 12 Hr. 6-10 Day 2/4/14 Email Preliminary Results to: smatthews@watts-ae.com 24 Hr.

Accounts Payable Mail Invoice to: Mail Report to: Scott Matthews

Watts Architecture & Engineering, P.C. Watts Architecture & Engineering, P.C. 2610 S Salina Street, Syracuse, NY 13210 95 Perry Street, Buffalo, NY 14203

Sample Number	Material Description	Sample Location	Laboratory PLM	Results TEM
1072792-1	of white I grey masony paint	Masoncy black below bearing fact SEC South abstract wall		
3	Black bearing pad	North abutment wall SE corner Bearing		
5	Jan	NE coiner bearing		
7	Grey caulk on fence at ty of sidewall	South end of Bridge/Forme	-	
V 9		Mid point of Bridge/Fence North and of Bridge/Fence		
Sampled By:	Scott Matthews Date:	PECEIVE DO Received By: FFR 1 4 2014 Do	ite:	

Sampled	Ву:
---------	-----

Client:

Scott Matthews

Scott Matthews to FedE

Date:

Date:

Relinquished By:

Date:

Received By:

Date:

Comments:

OrderID: 141400415



BIN 1072792 Inspection Photos

I-81 (Former I-481) NB over Thompson Road

Photo 1



Photo 2



Photo 3



Photo 4



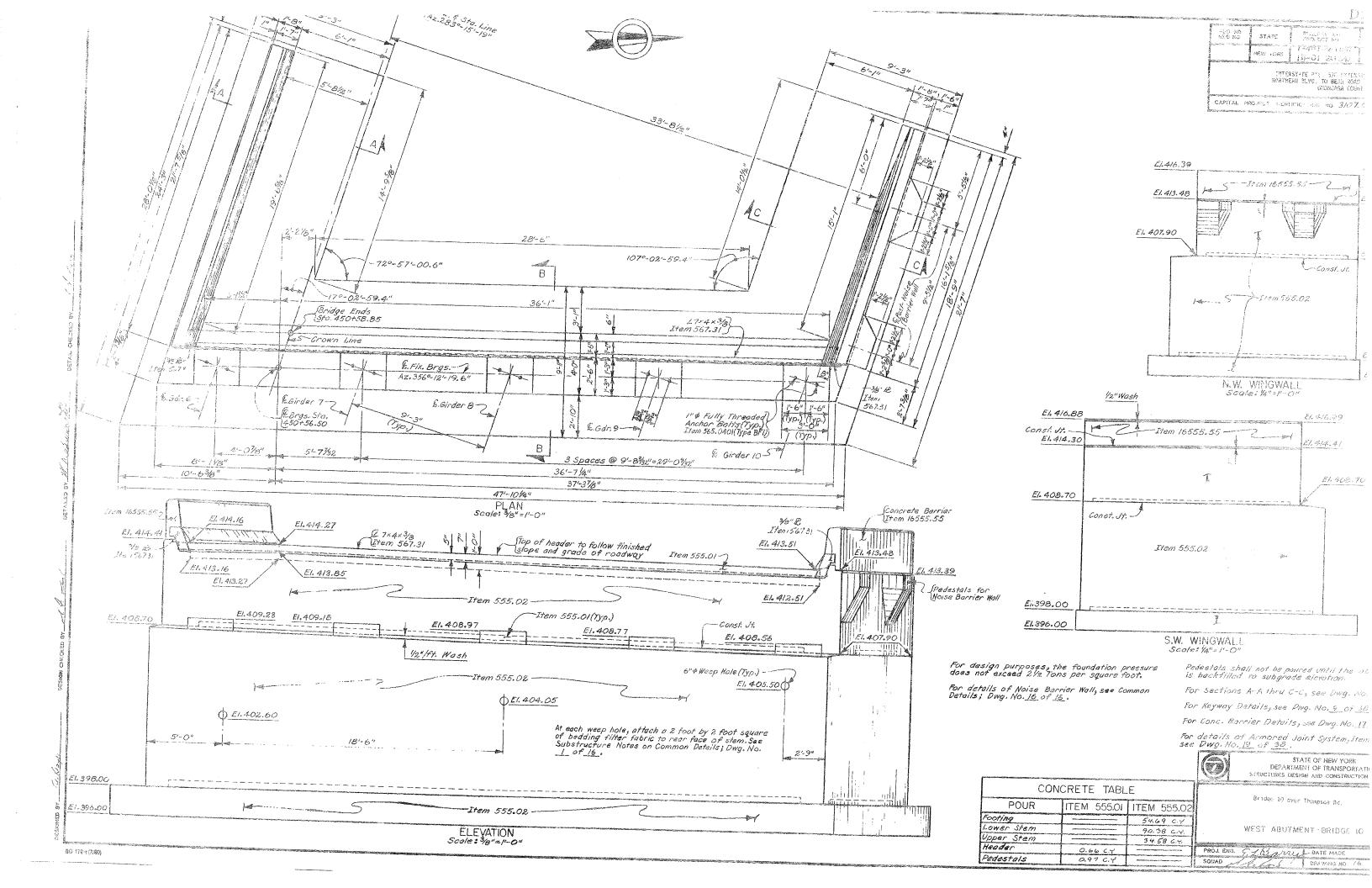
Photo 5

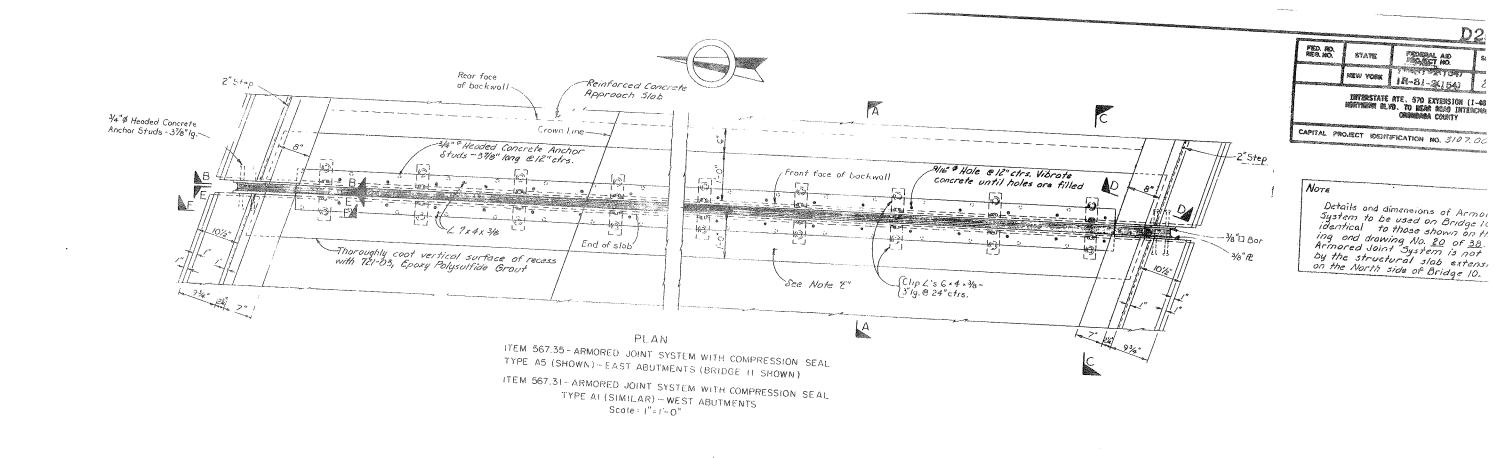


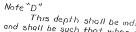
Photo 6



N/10/01016 D250416 V R. Engla TC 11-12- 98 STATE NEW YORK IR-81-2(154) 278 INTERSTATE RTE. 570 EXTENSION (1-481)
NORTHERN BLVD. TO BEAR ROAD INTERCHANGE ONONDAGA COUNTY CAPITAL PROJECT IDENTIFICATION NO. B. Sta. 497+01.50 -Record plans were reviewed on 3/14/14 by GA. The following suspect material was identified: Type D waterstop - pages 4 and 5 3:0" Sta 447+39.6. Br. Ends Sta 449+ 52.76 Bridge Begin: Sta. 448+47.02 " c. to c. | brgs 40-0" Reinf. Conc SB450 Sta 449+92.72 Sto Line } Appro. : lab. (Tup) HZ 253-15-117 58.5ta. 4 LUCATION MA 3CHLE 1" 2505' - D.H.-T3 4'-0" Sod CLIEED QUALE-NILE BIN 1072791 (Br. 11) & BIN 1072792 (Br. 10) INVENTORY RATING OPERATING RATING HS 23(42T)(W.S.) HS 47(85T)(W.S.) c. to c. brgs. Br Ends Sto 450+58.85 NB 951 40:09 TO NORTH SYEACUSE The ratings shown are based on the use of the Type 2 Form System-See Dwg. No.21 of 38. Limits of Block.
Paring in Er. Est 5Kew 4 | Faring (Typs) Bex Bunn Guide Bail (Typical) Ptot Min. V.C. Th. Ed 3'-0" - Nuise Barrier NEST ACCIONE SAMO Th. Rd 5ta. 25+93.33 = SB 5 ta. 499+01.30 £N1194,460.196 E628,848,476 Ground L'ne PLAN SCALE 1"= 20-0" -45 JM Elev. 370.) TR 25 7E 30 THOMPS DI. EL. EXISTING : * Noise Borrise in bridge Estinate Noise Borrier (in Hwy. Est.) SCALE HOLIZ 1-53-0 (E1. 429.0 17.07 Act Min. C1 (Br.10) Br10 51.396 00. Br11 E1.391.50 5 Grand Line 1 Indicates toring 2-3" 3' { Var DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN & CONSTRUCTION DIVISION Est 11: Inne , Wi.) JECT ENGINEER 1002 Bridges 10 & Wover Thompson Rd. [...T.1. El. v. \$70.0] EXISTING THOMPSON RD. FLEI HTION AA PLAN, ELEVATION, PROFILE AND SECTION SCALE 1"10'0" TAM CHECKED BY A 1 Long SCALE 1": 200"







Note D

This depth shall be indicated on the shap drawing and shall be such that when the seal is compressed of its normal width, the top of the seal shall be no than 1/4" nor more than 3/4" below the top of roadr

CT NO.

IR-81-2(154)

Note "E"

Note E. Concrete in recesses on superstructures provid installing the Armored Joint System shall comply with Specifications for Item 15555.04, except that make finishing will not be required. No additional paymen be made for furnishing and placing this concrete a quantity lies within the limits of the area to be provided in the Item 15555.04.

It is desirable to have the Armored Joint with Compression Seal assembled in the shap and delivered job site all set for installation in its preformed recent structural slab. In cases where the Armored Joint be assembled in the shap, due to its excessive lengular causing shipping problems, the joint shall be sealed the Compression Seal before the structure is apened traffic, and before discontinuing operation when work suspended during the Winter.

The cost of furnishing and placing the Epoxy Polysulfide Grout shall be included in the unit price b for Item 15555.04.

For details of Headed Concrete Anchor Stud and Cutting Seal, see Dwg. No. <u>20</u> of <u>38</u>.

For sections B-B thru F-F, see Dwg. No. 20 of 38.

For details of Clip Angle, see Dwg. No. 20 of 38.

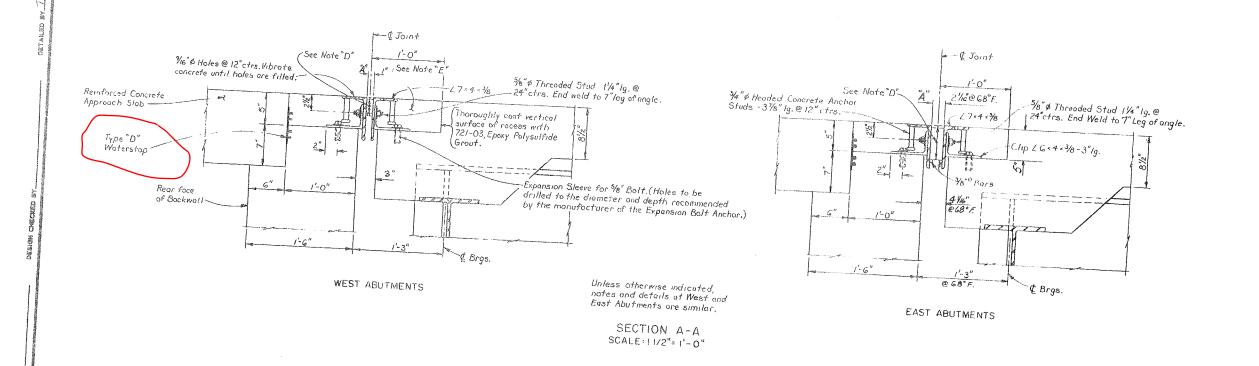


STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN AND CONSTRUCTION DIVISION

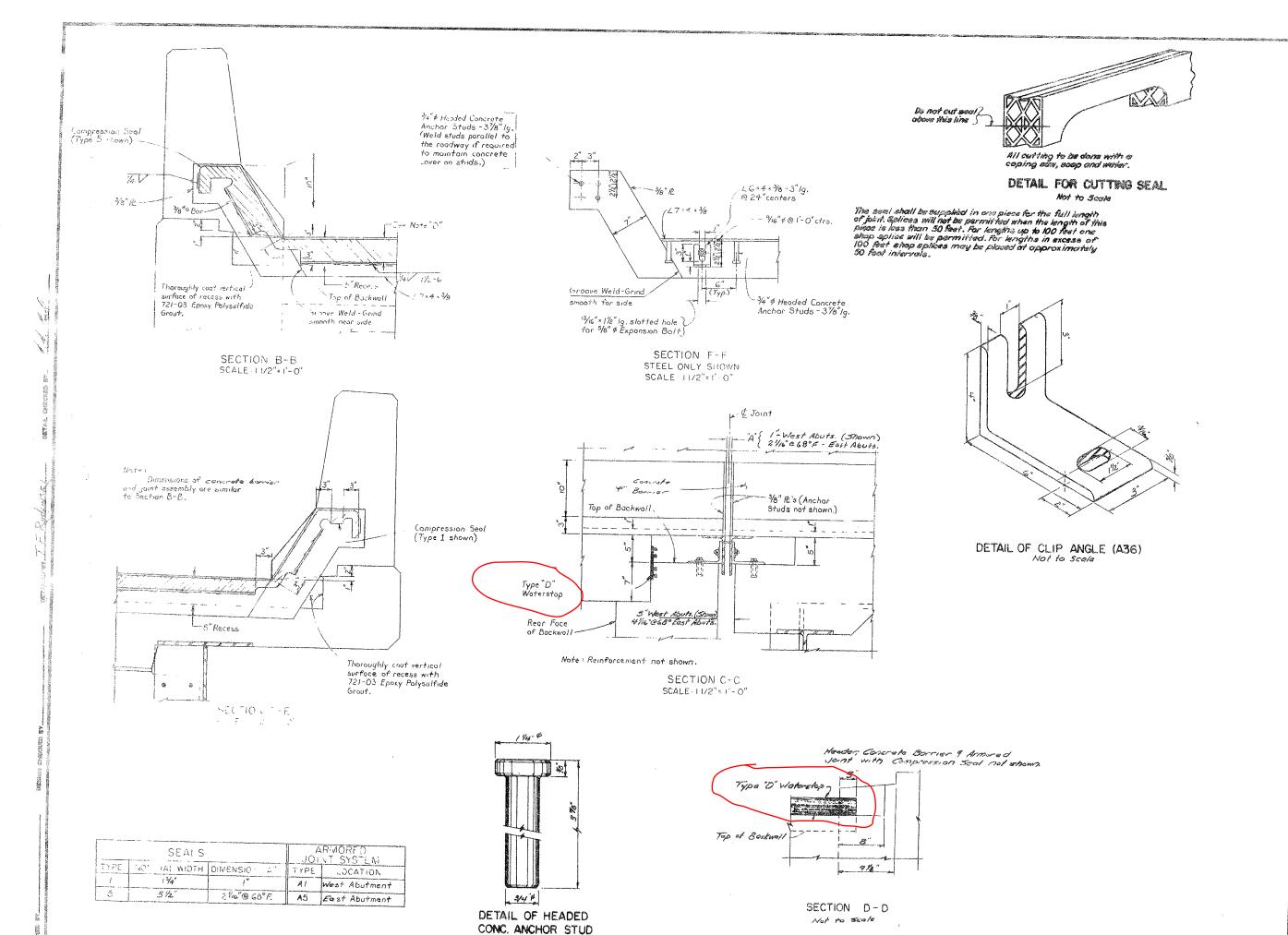
dridges 10 & 11 over Thompson Rd.

ARMORED JOINTS AT ABUTMENTS

PROJ BIB S JUSTINIAN DATE HAS



80 170s (700s)



For Notes Of E, see For location of Sec. sec Dwg. No. 19 0.



FED. SB. ASS. NO.

STATE NEW YORK

CAPITAL PROJECT IDENTIFIE

INTERSTALF RIF

DEPARTME STAUCTURES DESIG 1200 E 1000 E

Bridges 10 &

ARMORED JOINTS

PROJETE ET LESSON

60 170 g

GIRDER 1-BLE TOP FLANGE BOTTON FLANGE WER GIRDER FORM TYPE 1-5 16"x1/8 16.34 16"x34" 16"x2" 16 x 3/4" 16"x1/2" 16"x1/2" 16"x 3/1" 44x1/2" 6-9 17x 1/8 17x 34 17x 2" 17x 2" 17x 34 17 x 1/2" 17"x 1/2" 17"x 34" 44" x 42" 10 17x1/2 17x3/ 17x3/ 17x2 17x2 17x / 17x1/2 17x /2 17x /2 44x 9/6 4F5 16 x16 10 x 3/4 16 x 3/ 17 x2 17x18 17"x 3" 17"x 3" 18"x2 18"x 32 18"x 14 18"x 14 18"x 34 44"x 1/2" 6-9 17"x11/2 17"x 3/4 18 2" 18"x 3/4 18"x 11/2 18"x 11/2 18"x 3/4" 44x 9/16 10

** Type 1 Forms are removable or integral prestressed concrete. Type 2 Forms are permanent corrugated metal.

STUD SHEAR CONNECTOR SPACING-ITEM 556.03 GIRDEF SPACING 6 110 sp. (111 pairs)@ 11"=100'-10" 16 1110 8 134 Sp (135 pairs) @ 9" = 100'-6 18" = 1080 6 110 sp. (111 pairs) @ 11" = 100-10" 16 End of Girder

FECTRAL AID STATE SHEET NO. TOTA NEW YOR IR-81-2(154) 298 380

INTERSTATE RTE. 570 EXTENSION (1-481) HORTHERN BLVD. TO BEAR ROAD INTERCHANGE OHONDAGA COUNTY

CAPITAL PROJECT IDENTIFICATION NO. 3107.00 (01)

ALL TYPE 2

* F. P.G.W. # 5 1713/4 18+3/A * F.F.G.W. * F. P. O. W. 181/2 See Flange Thickness Toper Detail (Typ.)

Jee Bott Flonge Toper Detail (Typ.) 13'-11 13'-0"

> Note: Girder to be used depends upon Deck Form Type chosen. (See Girder Toble)

6" 34" Dia. Stud Shear Connectors - Item 556.03 see Table above for spacing

2 * F.P.G.W. = Full Penetration Groove Weld

M.B. = Mill to Bear

48'-0"

L = 101'-0" Ctr. to Ctr. Brgs.

GIRDER DETAIL

NOT TO SCALE

47'-0 17 x 1/4 (1

& Brgs

S.B. T.G. L. &

& Brgs. East Abut. -

1"x 1/16" Conn. P.

BRIDGE II

Girder 1

Girder 2

GIRDER LAYOUT

NOT TO SCALE

Girder 3

Girder 4

Girder 5

Girder 6

Girder 7

Girder 8

Girder 9

Girder 10

BRIDGE 10

27-5" * F. P. G. W. 17x3/4 Tight fit 8"×7/8" or weld Brg. Stiff. * F.P.G.W THE RH or M.B. * F.P.G.W. * F. P.G.W. Location of Drip Bors Fascia Girders Only

- & Brgs. West Abut.

-N.B. T.G.L. & Sta. Line

& Brgs. West Abut.

& Fixed Brgs.

13'-0

Flange BOTTOM FLANGE TAPER Not to Scale

Bottom

Top & of Bearing ~

n& Bearings -7" × 7/16" Conn. PL's Tight Fit

CON'N R - IN PAIRS

B" x 7/8" Brg. Stiffener

Tight Fit or weld -8"×% Full Penetration Groove Weld or Mill to Bear BRG ST FF

Brg. Stiff.

CONN R-USED SINGLY

G FDEP SECTIONS T T. SCALE

CAMBER TAPLE 0.1L 0.2L 0.3L 0.4L 0.5L 0.6L 07L 0.81 INERTICAL CURVE ,FT .01 .02 .02 02 .02 .02 .02 .01 JISTEL DL. (FT.) .05 02 .04 .06 .06 .06 .05 .04 .02 CONFRETE D L. (FT.) 09 .17 23 .27 .28 .27 .23 .17 .09 SUPPRIMPOSED D L. (FT.) .02 .03 .04 .05 .05 .04 05 .03 .02 TOTAL (F .14 25 .34 .40 41 VER CAL CURVE :FT) .01 02 .02 03 .03 .03 02 .02 .01 STELL D.L. (FT.) .02 .04 .05 .06 .06 .06 .05 .04 .02 CONCRETE D.L. (FT) .09 .16 .23 .26 .28 .26 .23 .16 ,09 SUFFRIMP, SED D.L. (FT.) 02 .03 .04 .05 .05 .05 .04 .03 .02 TOTAL FT .25 .34 40 .42 4.0 34 25 VER CAL CURVE 'FT) .01 .02 30. .02 02 .03 .02 . O i .01 LDL (FT.) .02 04 .05 .06 .06 .06 .05 .04 .02 CONCRETE DI E .08 .16 .21 . 25 26 .25 .21 . 16 .08 - (PERIMPOSED DL (FT.) .03 .08 .09 .10 .09 . 08 27 .03 TOTAL IFT. .42 .43

Tables of Camber, Design Load & Moment und Shear are based upon use of the girder which would be used with Deck Form Type 2. (See Girder Table above.)

& Exp. Brgs.

MOMENT & SHEAR			GIRDER	1-5	GIRDE	R 6-9	GIRDER 10	
	TABL	E	€ BRG.	MID. PT.	& BRG.	MID.PT.	& BRG.	MID. PT.
	M MENT			1758	The section is a second section in the section in the section is a section in the	1824	Part State S	1844
	('- (-	SHEAR	70		72	1	73	1044
	S.D.L.	MOMENT		456		456		887
	J.D.L.	SHEAR	18		18		35	001
		MOMENT		1526		1583	-	1380
	LL.	SHEAR	65	29	67	30	58	26

Shears are expressed as Kips. Live Lood Moments and Shears include Impact.

Moments are expressed as Foot Kips.

DESIGN LOAD TABLE GIRDER 1-5 GIRDER 6-9 GIRDER 10 UNIT LOAD / FT. LOAD / FT. LOAD/FT SLAB 0.948 K/FT. 0.983 KFT. 0.983 YFT. HAUNCH 0.039 K/PT. 0.042 KIFT. 0.042 K/FT. GIRDER 0.235 K/FT. 0.245 K/FT. 0, 259 K/FT SI.P. FORMS 0.121 K/FT. 0.125 K/FT 0. 125 K/FT. DIAPHRAGMS 0.040 K/FT 0.040 KIFT. 0.040 K/FT. 1.449 K/FT. TOTAL 1.383 K/FT. 1.435 K/FT. CONC BARRIER 0.200 K/FT 0.200 KIFT. 0.200 K/FT NOISE BARRIER 0.338 KIFT FUTURE W.S. 0.158 K/FT. 0.158 K/FT. 0.158 KIFT TOTAL 0.358 K/FT. 0. 358 K/FT 0.696 K/FT

The camber labeled "Vertical Curve" in the table is the camber required to follow the vertical curve.

CAPEER NOTES

The camber labeled "Steel D.L." in the table is the camber required to offset the deflection due to the dead load weight of the girder as fabricated.

The camber labeled "Concrete D.L." in the table is the camber required to offset the deflection due to the dead load weight of the concrete slab.

The camber labeled "Superimposed D.L." in the table is the camber required to offset the deflection due to the weight of the curb, sidewalk, railing and future wearing surface.

5. The total camber is the sum of vertical curve, steel dead load, concrete dead load and superimposed dead load. All camber offsets are measured vertically to the top of web from a straight reference line drawn from the intersection of top of web and centerline of bearing at one end of the girder to the corresponding point at the other end of the girder.

6. Positive numbers in the table are above the straight reference

7. Megative numbers in the table are below the straight reference

8. The camber offsets are tabulated in decimals of a foot.

For Superstructure Notes, see Common Details; Dwg. No. 1 of 16.

7"× 7/6" Conn. Æ

All structural steel shall be ASTM A588 steel, unpointed. For Stud Shear Connector Details, see Common Details

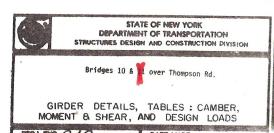
Dwg. No. 5 of 16.

For details of Flange Thickness Taper, see Common Details; Dwg. No. 5 of 16.

The ends of girders and bearing stiffeners shall be vertical. All conn. R's may be perpendicular to the top flonge For layout of connection plates, see Dwg. No 22 of

For Haunch detail, see Dwg. No. 23 of 38.

For Orip Bar Details, see Common Details; Dwg. No. 5 of 16.



PROJEMB ELBARY DATE MADE SQUAD MA FOR SPAWING NO. 2/ OF 38

90 170 (FIRE)

1 11/1

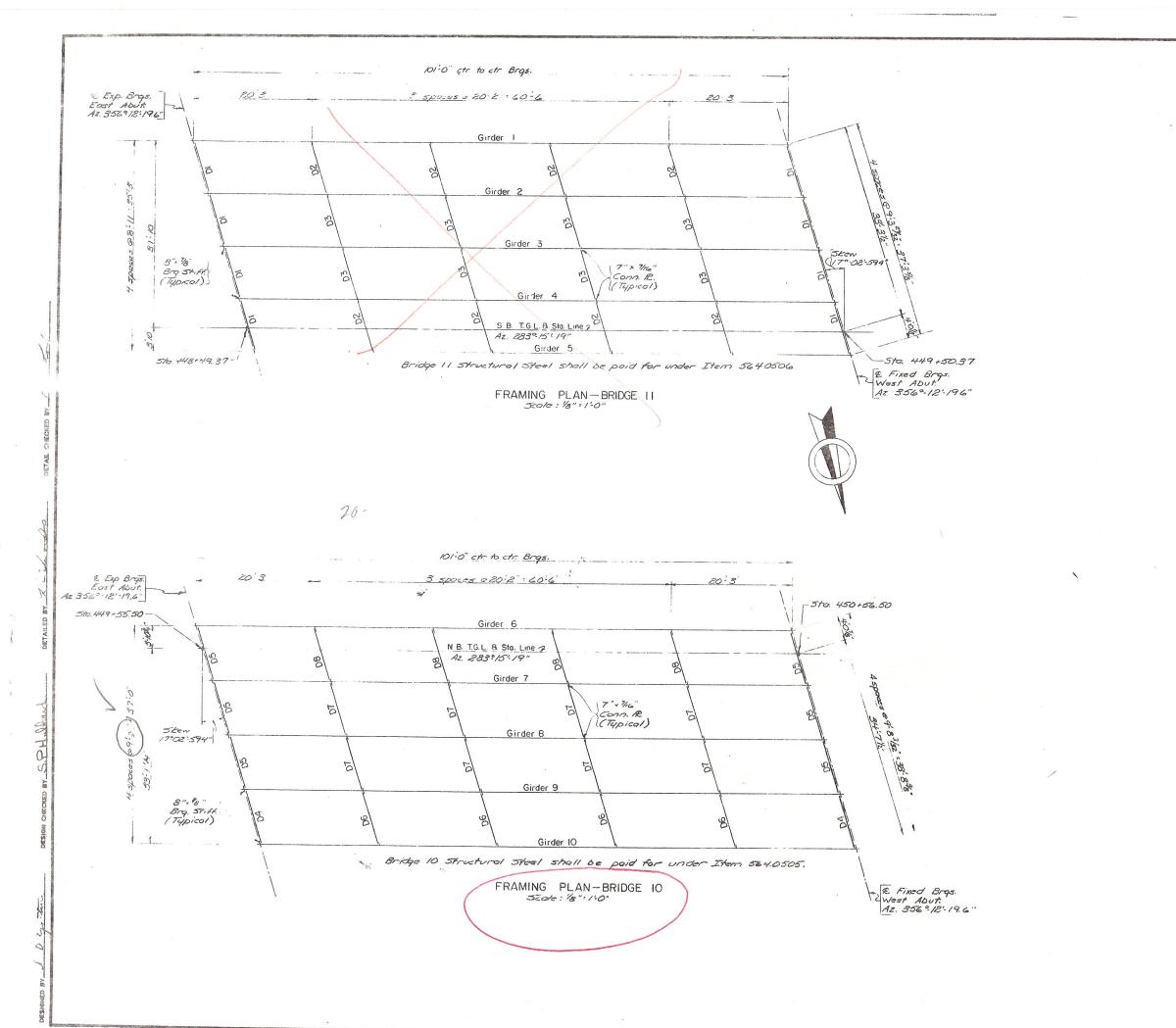
LEGN

or M.F.

S.P. Hullbrid

.28 36

Assumed Live Load . HS 20-44



FED. FD. REG. NO. PEDERAL AID PROJECT NO. STATE **一般の中心の中ではなり** IR-81-2(154) HEW YORK

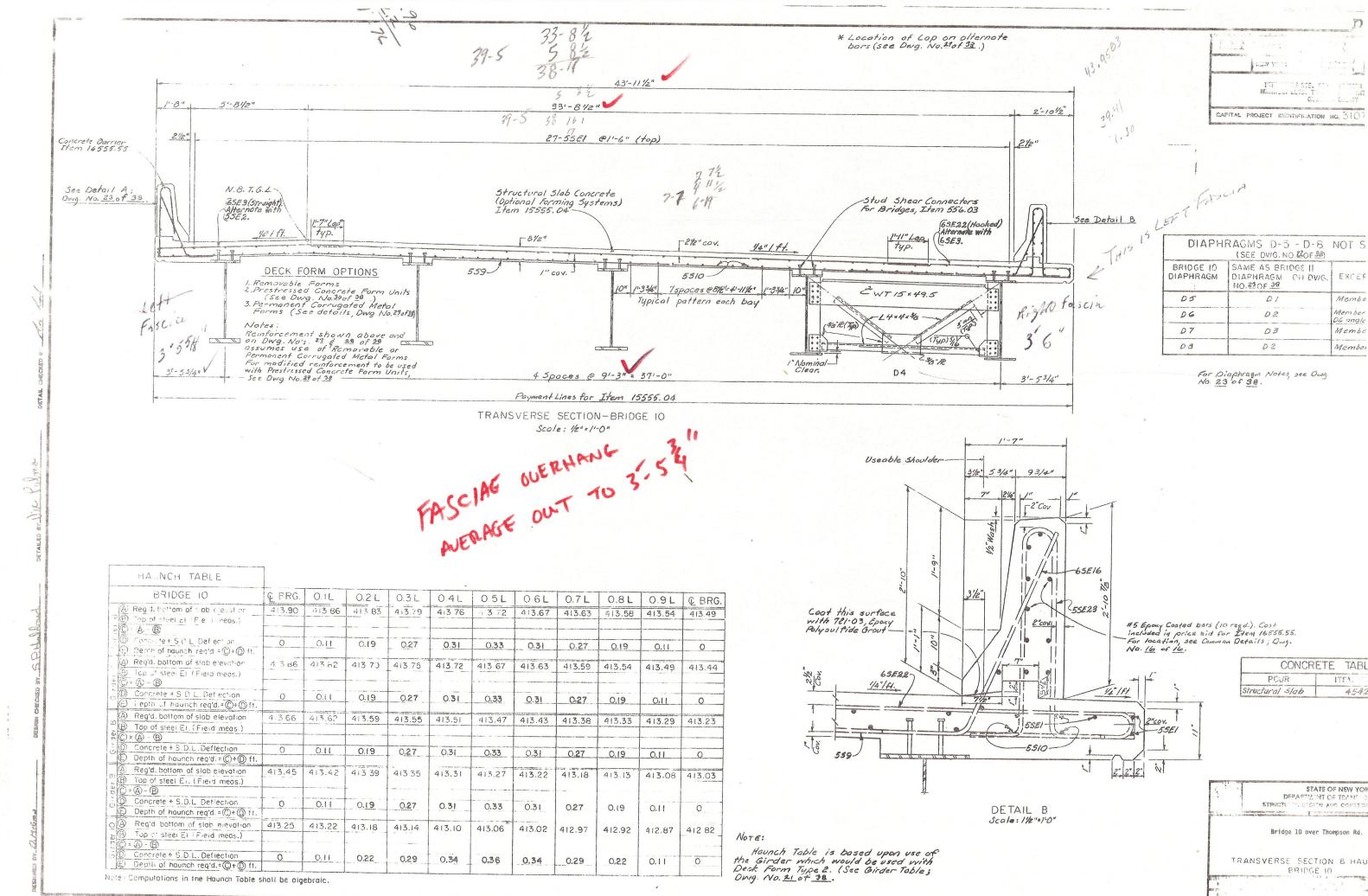
INTERSTATE RTE. 570 EXTENSION ()
NORTHERN BLVD. TO BEAR ROAD INTER
ONONDAGA COUNTY

CAPITAL PROJECT IDENTIFICATION NO. 3/01

STATE OF NEW YOR DEPARTMENT OF TRANSPOL STRUCTURES DESIGN AND CONSTRUC

FRAMING PLANS

PROJ. ENS. & J. Barry DATE MADE



989 470 a 274

FED. RD. REG. NO. FEDERAL AID PROJECT NO. SHEET NO. STATE HEW YORK IR-81-2(164) 304 380

INTERSTATE RTE. 570 EXTENSION (I-481)
NORTHERN BLVD, TO BEAR ROAD INTERCHANGE
ONORDAGA COUNTY

CAPITAL PROJECT IDENTIFICATION NO. 3107.00(01)



#5 Epony Cooted Bors (2 sets of 6 regd.).
Cost notuded in price oid for Item 1655555,
See Detail 1, Dwg. No. 23 of 38 for iocation. 97-55EB@12/2" (See Details E; F; Dwg No. 28 of 38, for location) 96 - 65E16@1212" (See Details Eff; Dwg. No. 28 of 38, for location)

SOUTH CONCRETE BARRIER

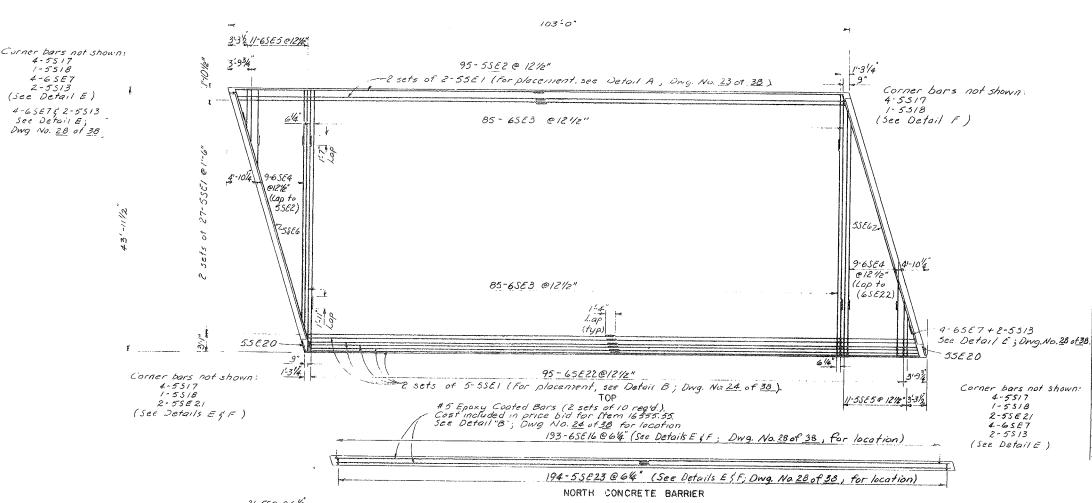
4-5517

4-65E7 2-5513

(See Detail E)

4-65E7 & 2-5513 See Detail E;

Dwg No. 28 of 38



SUPERSTRUCTURE BAR LIST-BRIDGE 10 MARK NO. LENGTHTYP WEIGHT A B C D E F G SUPERSTRUCTURE Slab 5SE1 72 51-2 Str. 5582 95 8-10 1 0-7 8-3 0-5 65E3 170 36-11 Str. 65E4 18 18-11 Str. 65E4 Length varies from 5-4 to 32-6 (2 sets of 9) 65E5 22 24-0 Str. 6SE5 Length varies from 70 to 41-0 (2 sets of 11) 55E6 2 41-8 Str. 6587 8 6-2 0-8 5-6 0-6 0 558 42 24-0 558 Length Worles from 7-0 to 41-0 (2 sets of 21) 559 170 43-7 5510 92 51-2 Str. 5511 2 45-8 Str. 5512 2 41-8 Str. 5513 4 5-6 Str. 5514 64 2-9 15 1-6 0-3 0-7 0-10 55815 97 6-1 2 2-2 0-9 3-2 0 0-4 0 2-2 0-3 6SE16 289 4-11 8 1-4 3-7 0 3-3 1-5 5517 16 2-3 Str. 5518 4 5-1 Str. 5519 24 9-4 55820 2 2-0 Str. 55621 4 2-3 Str. 65E22 95 9-3 0-8 8-7 55E23 194 8-10 14

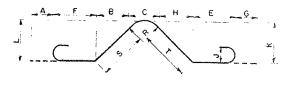
0 0 0-6

Cost of this reinforcement shall be included in unit price bid for Item 15555.04

0

0 3-2 3-2 0-3 3-23

0-10 0-10 0



TYPE 14

For configuration of Types 1, 2, 8 \$ 15, see Dwg. No 33 of 38.

For additional details of reinforcement, see Dwg Nos 23, 24 & 28 of 38.

For details E & F, see Dwg. No 28 of 38



STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN AND CONSTRUCTION DIVISION

Bridge 10 over Thompson Rd.

SUPERSTRUCTURE REINFORCEMENT-BRIDGE 10 (For use with Removable Forms or Permanent Corrugated Metal Form

DATE MADE

≤5512	2 sets of 10-5510 (see Note "A")		5 35/1	Bridge II; Dwg. 26, Section A, for similar details.
	6/4" 2 sets of 10-5510 (see Note "A")		3-55/9	B-55/4 @ /1-0" (typ. each Day)
	2 sets of 10-5510 — (see Note A")	('-4" Zop (typ.)		
5511 2	2 sets of 10-5510 (see Note "A")	2 sets of 3-5510 (for placement Dwg. No. 24 of 38).	nt, see Detail B; 5512 2	Not: "A" For spacing and/or loc of bars, see Transverse Secti Dwg. No. 24 of 38.



STANDARD SHEETS

M203-4, M203-5, M203-6R1, M603-1 M606-32, M606-33, M606-34, M619-3R1, M619-4, M619-5 M685-1, M685-2R1, M685-3R1 M685-4R1, M685-5R1, M403-1, M203-4, M203-5, M203-6R1, M603-1

Record plans were reviewed on 3/14/14 by GA. No suspect ACM was identified.

ALL WORK CONTEMPLATED UNDER THIS CONTRACT IS TO BE COVERED BY AND IN CONFORMITY WITH THE STANDARD SPECIFICATIONS CHETRIC UNITS)

OF JANUARY 2, 2002, AS AMENDED BY ADDENDA NOS. 1 AND 2, EXCEPT AS MODIFIED ON THESE PLANS AND IN THE ITEMIZED PROPOSAL.

STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION OFFICE OF ENGINEERING

BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC) VARIOUS BRIDGES ON INTERSTATE 481 TOWNS OF DEWITT AND CICERO

VOLUME 1 OF 2

432 SHEETS

ONONDAGA

COUNTY

CONTRACT D259214

F.A. PROJECT

CONTRACTOR'S NAME AWARD DATE COMPLETION DATE_ FINAL ACCEPTANCE DATE REGIONAL DIRECTOR ENGINEER IN CHARGE

THIS IS A BRIDGE REHABILITATION PROJECT ON VARIOUS BRIDGES ON INTERSTATE 481, LOCATED IN THE TOWNS OF CICERO AND DEWITT IN ONONDAGA COUNTY. THIS WORK CONSISTS OF BRIDGE JOINTS, BEARINGS, BRIDGE RAIL AND CONCRETE REPAIR OF SUBSTRUCTURES. THERE ARE 28 BRIDGES IN THE PROJECT BEGINNING AT REFERENCE MARKER 4811-3301-1000 SOUTH OF THE CITY OF SYRACUSE AND ENDING AT REFERENCE MARKER 4811-3301-2143.

STATE OF NEW YORK REGIONS & LOCATIONS

OF REGIONAL OFFICES

OF THE STATE DEPARTMENT OF TRANSPORTATION

81)	
	1031711
1069131 1069132	1072791
1069142	TOTHAM ROAD TOTHAM ROAD
1093520	1072781 1072782
1054650 (1093561) (1093571) (1093671)	(481)
1002132	1072561
1093550 1093572 1093572 298	1072582 NOT TO SCALE

BRIDGE REHAB. PROJ .- ELEMENT SPECIFIC VARIOUS BRIDGES ON INTERSTATE 481 TOWNS OF DEWITT AND CICERO

ONONDAGA COUNTY STATE SHEET NO. TOTAL SHEETS N.Y.

FEDERAL AID
PROJECT NO.
CAPITAL PROJECT
IDENTIFICATION NO. 3056.13

INDEX ON SHEET NO. 5 & 6

COST(S)

DATE REGIONAL TRANSPORTATION MAINTENANCE ENGINEER DATE

PROJECT LOCATION

REGIONAL TRAFFIC ENGINEER

RECOMMENDED BY

REGIONAL DESIGN ENGINEES

FINAL COST TOTAL FISCAL SHARE

SHEET	DECODIDATION	DDYMING NO
NO.	DESCRIPTION	DRAWING NO.
1	TITLE SHEET	COVER
2,3,4	ESTIMATE OF QUANTITIES	IDX-1 - IDX-2
5,6	INDEX	107-1 - 107-5
7-155	MAINTENANCE AND PROTECTION OF TRAFFIC	MPT-1 - MPT-149
156	CROSSOVER TYPICAL SECTION	CTS-1
157-160	CROSSOVER SURVEY CONTROL DATA	HC-1 - HC-4
161-166	CROSSOVER PLANS	CPL-1 - CPL-6
167-174	CROSSOVER PROFILES	CPR-1 - CPR-8
175-177	CROSSOVER MISC. DETAILS	CMD-1 - CMD-3
178-179	CROSSOVER MISC. TABLES	CMT-1 - CMT-2
		05.11 05.46
180-191	ESTIMATE OF QUANTITIES BY STRUCTURE	QE-1A - QE-4C GN-1
192	GENERAL NOTES	011-1
193	BIN 1002131, I481SB/RT. 5, PLAN AND ELEVATION	GP1-1
194	BIN 1002131, TYPICAL BRIDGE SECTION AND PROFILE	TS1-1
195-197	BIN 1002131, SOUTH ABUTMENT (SB)	AB1-1 - AB1-3
198-199	BIN 1002131, NORTH ABUTMENT (SB), SHEET PILING LAYOUT	AB1-4 - AB1-5
200-201	BIN 1002131 PIER 1 & PIER 2 SB REMOVAL DETAILS	PR1-1 & PR1-2
202	BIN 1002131, PEDESTAL REPLACEMENT	PR1-3
203	BIN 1002131, BOLSTER DETAILS	PR1-4
204	BIN 1002131, ANCHOR BOLT LAYOUT (SB)	PR1-5
	ONL 1000170 TABLED OF S. D. M. AND FLOVITION	GP2-1
205	BIN 1002132, I481NB/RT. 5, PLAN AND ELEVATION BIN 1002132, TYPICAL BRIDGE SECTION AND PROFILE, APPROACH SECTION	TS2-1 & TS2-2
206-207	BIN 1002132, SOUTH ABUTMENT (NB)	AB2-1 - AB2-6
214-219	BIN 1002132, NORTH ABUTMENT (NB)	AB2-7 - AB2-12
220-221	BIN 1002132, PIERS (NB)	PR2-1 & PR2-2
222	BIN 1002132, PEDESTAL REPLACEMENT (NB)	PR2-3
223	BIN 1002132, BOLSTER DETAILS (NB)	PR2-4
224	BIN 1002132, ANCHOR BOLT LAYOUT (NB)	PR2-5
225	BIN 1031711 AND 1031712, I-481/I-81, PLAN AND ELEVATION	GP3-1
226	BIN 1031711 & 1031712, TYPICAL BRIDGE SECTION AND PROFILE	TS3-1 AB3-1
227	BIN 1031711, EAST ABUTWENT (SB) PLAN & ELEVATION	AB3-2
228	BIN 1031711, WEST ABUTMENT (SB) PLAN & ELEVATION	AB3-3
229	BIN 1031712, EAST ABUTMENT (NB) PLAN & ELEVATION BIN 1031712, WEST ABUTMENT (NB) PLAN & ELEVATION	AB3-4
230 231	BIN 1031711 & 1031712, APPROACH SLABS	AS3-1
232	BIN 1064650, KINNE RD/1-481, PLAN, ELEVATION, AND BRIDGE SECTION	GP4-1
233	BIN 1069131 & 1069132, 1-481/QUARRY DRIVEWAY, PLAN AND ELEVATION	GP5-1
234	BIN 1069131 & 1069132, TYPICAL BRIDGE SECTION AND PROFILE AND BRIDGE SECTION	TS5-1
235	SIN 1069131, WEST ABUTMENT (SB) PLAN & ELEVATION	A85-1
236	BIN 1069131, EAST ABUTMENT (SB) PLAN & ELEVATION	A85-2
237	BIN 1069132, EAST ABUTMENT (NB) PLAN & ELEVATION	AB5-3
238-239	BIN 1069141 & 1069142, I-481/NYS + W RAILROAD, GENERAL PLAN AND ELEVATION	GP6-1 - GP6-2
240-241	BIN 1069141 & 1069142, TYPICAL BRIDGE SECTION AND PROFILES	TS6-1 & TS6-2
242	BIN 1069141, WEST ABUTMENT (SB) PLAN & ELEVATION	AB6-1
243	BIN 1069141, EAST ABUTMENT (SB) PLAN & ELEVATION	AB6-2
244	BIN 1069142, WEST ABUTMENT (NB) PLAN & ELEVATION	AB6-3
245	BIN 1069142, EAST ABUTHENT (NB) PLAN & ELEVATION	AB6-4

SHEET NO.	DESCRIPTION	DRAWING NO.
246	BIN 1072530, RAMP TO I-481/I-481, PLAN, ELEVATION AND BRIDGE SECTION	GP7-1
247-248	BIN 1072530, EAST ABUTMENT	AB7-1 - AB7-2
249	BIN 1072571 & BIN 1072572, I-481/ROUTE 298 PLAN AND ELEVATION AND BRIDGE SECTION	GP8-1
250	BIN 1072571 & BIN 1072572, TYPICAL BRIDGE SECTION AND PROFILE	TS8-1
251	BIN 1072571, SOUTH ABUTMENT (SB) PLAN & ELEVATION	AB8-1
252	BIN 1072571, NORTH ABUTMENT (SB) PLAN & ELEVATION	AB8-2
253	BIN 1072572, SOUTH ABUTMENT (NB) PLAN & ELEVATION	AB8-3
254	BIN 1072581 & BIN 1072582, I-481/TAFT ROAD, PLAN AND ELEVATION	GP9-1
255	BIN 1072581 & 1072582, TYPICAL BRIDGE SECTION AND PROFILE	TS9-1
256-257	BIN 1072581, SOUTH ABUTMENT AND NORTH ABUTMENT (SB)	AB9-1 & AB9-2
258-259	BIN 1072582, SOUTH ABUTMENT AND NORTH ABUTMENT (NB)	AB9-3 & AB9-4
260	BIN 1072781 & BIN 1072782, I-481/TOTMAN ROAD, PLAN, ELEVATION AND BRIDGE SECTION	GP10-1
261	BIN 1072781 & BIN 1072782 TYPICAL BRIDGE SECTION AND PROFILE	TS1'0-1
262-263	BIN 1072781, EAST ABUTMENT (SB) PLAN & ELEVATION	AB10-1 & AB10-2
264	BIN 1072782, WEST ABUTHENT (NB) PLAN & ELEVATION	AB10-3
265	BIN 1072781, APPROACH SLABS	AS10-1
266	BIN 1072791 & BIN 1072792, I-481/ THOMPSON ROAD, PLAN, ELEVATION AND BRIDGE SECTION	GP11-1
267	BIN 1072791 & BIN 1072792 TYPICAL BRIDGE SECTIONS AND PROFILE	TS11-1
268	BIN 1072791, EAST & WEST ABUTMENTS (SB)	AB11-1
269	BIN 1072791, APPROACH SLAB (SB)	AS11-1
·····		
270	BIN 1093510, I-690 RAMP/ I-481SB, PLAN, ELEVATION, AND BRIDGE SECTION	GP12-1
271	BIN 1093510, WEST ABUTMENT PLAN & ELEVATION	AB12-1
272	BIN 1093520, WN LINE OVER INTERSTATE 481 SB, PLAN, ELEVATION, AND BRIDGE SECTION	GP13-1
273	BIN 1093520, WEST ABUTHENT PLAN & ELEVATION	AB13-1
274	BIN 1093540, I-690 EB/ I-481 NB RAMP, PLAN, ELEVATION, AND BRIDGE SECTION	GP14-1
275	BIN 1093540 TYPICAL BRIDGE SECTION AND PROFILE	TS14-1
276 🛂	BIN 1093540, WEST ABUTWENT	AB14-1
077	THE CASE AND ADDRESS OF THE CA	
277	BIN 1093550, I-481 NB/WB CONNECTOR, PLAN, ELEVATION, AND BRIDGE SECTION	GP15-1
278	BIN 1093550, SOUTH ABUTMENT, NB PLAN & ELEVATION	AB15~1
279	BIN 1093550, NORTH ABUTMENT, NB PLAN & ELEVATION	AB15-2
250	DIN 1003551 & 1003552 1.484 (DAMTE 200 OF AN ELEVATION LAST ROTTOR CENTRAL	
280	BIN 1093561 & 1093562, I-481/ROUTE 290, PLAN, ELEVATION AND BRIDGE SECTION	GP16-1
281	BIN 1093561 & 1093562 TYPICAL BRIDGE SECTION AND PROFILE BIN 1093561, SOUTH ABUTMENT (SB) PLAN & ELEVATION	TS16-1
282	BIN 1093562, SOUTH ABUTMENT (NB) PLAN & ELEVATION	AB16-1
283	Section Comments and FLARY & CLETHILLIN	AB16-2
284-287	BIN 1093571 & BIN 1093572, I-481/CSX RAILROAD YARD, PLAN & ELEVATION	GP17-1 - GP17-4
	BIN 1093571 AND BIN 1093572, TYPICAL BRIDGE SECTION AND PROFILES	TS17-1
	BIN 1093571 AND BIN 1093672, DRAINAGE DETAILS	DD17-1 - DD17-5
	BIN 1093571 AND BIN 1093672, SCUPPER EXTENSIONS	DD17-6 - DD17-8
	BIN 1093571, PIERS 1-14, (SB)	PR17-1S - PR17-18S
315	BIN 1093572, SCUTH ABUTMENT (NB)	AB17-1
16-329	BIN 1093572, PIERS 1-14 (NB)	
30-331	BIN 1093571 AND 1093572, PARAPET REPAIR DETAILS	PR17-1N - PR17-14N PW17-1 & PW17-2
332	BIN 1093572, BRIDGE DECK REPAIRS	DR17-1
ا عدد		Aut 1

	FED ROAD REG. NO.	STATE	CONTRACT NO.		SHEET	TOTAL
	nco. No.		D259214	NO.	SHEETS	
ı	1	N.Y. D2 REHABILITATION PROJ BRIDGES ON INTERS F DEWITT AND CICER A COUNTY	0233214		5	432
	BRIDGE RE	HABILI	TATION PROJECT (ELEMENT	SPEC	IFIC)	
	VARIOUS E	RIDGES	ON INTERSTATE 481			
	TOWNS OF	DEWITT	AND CICERO			-
	ONONDAGA	COUNT				
	P.I.N. 305	613	B.J.N. ALL	BINS		

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

INTERSTATE 481

REHABILITATION PROJECT

INDEX



STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DATE DRAWING NO. 10/02 IDX-1

	INDEX (CONTINUED)	
SHEET NO.	DESCRIPTION	DRAWING NO.
333	BIN 1093671 & 1093672, I-481/KIRKVILLE ROAD, PLAN, ELEVATION AND BRIDGE SECTION	GP18-1
334	BIN 1093671 & BIN 1093672 TYPICAL BRIDGE SECTION AND PROFILE	TS18-1
335-336	BIN 1093671, SOUTH ABUTMENT (SB) PLAN, ELEVATION AND SECTIONS	AB18-1 - AB18-2
337	BIN 1093671, NORTH ABUTMENT (SB) PLAN & ELEVATION	AB18-3
338-339	BIN 1093672, SOUTH ABUTMENT (NB) PLAN, ELEVATION AND SECTIONS	AB18-4 - AB18-
340	BIN 1093672, NORTH ABUTMENT (NB) PLAN & ELEVATION	AB18-6
341-342	BIN 1002131, BIN 1002132 & BIN 1093571, MULTIROTATIONAL BEARINGS	BR-1 & BR-2
343	BIN 1002131, BEARING RESTORATION DETAILS	BR-3
344	BINS 1069131 & 1069132, BEARING RESTORATION DETAILS	BR-4
345-346	BIN 1069141 & BIN 1069142, BEARING RESTORATION DETAIL	BR-5 & BR-6
347	BIN 1072530, BEARING RESTORATION DETAILS	BR-7
348	BIN 1072791 AND BIN 1072792 BEARING RESTORATION DETAILS	BR-8
349	BIN 1093550, BEARING RESTORATION DETAILS	BR-9
	BINS 1093751 & 1093572, BEARING RESTORATION DETAILS	BR-10 & BR-11
350-351 352	BIN 1072781 BEARING RESTORATION DETAILS	BR-12
	RAILING DETAILS	RD-1 - RD-3
353-355	BIN 1002131 & BIN 1002132, RAILING DETAILS	
356-358	BIN 1069141 & BIN 1069142, RAILING DETAILS	RD-4 - RD-6
359-360	RAILING DETAILS	RD-7 - RD-8
	BRIDGE JOINTS	
361-364	BRIDGE JOINT TABLE	JT-1 - JT-4
365	COMPRESSION SEAL JOINT DETAIL (ALL BRIDGES)	JD-1
366-370	BIN 1002131, JOINT DETAILS	JD-2 - JD-6
371-375	BIN 1002132, JOINT DETAILS	JD-7 - JD-11
376-377	BIN 1031711 & BIN 1031712, JOINT DETAILS	JD-12 - JD-13
378-383	BIN 1064650, JOINT DETAILS	JD-14 - JD-19
384-385	BIN 1069131, JOINT DETAILS	JD-20 + JD-21
386-387	BIN 1069132, JOINT DETAILS	JD-22 + JD-23
388-392	BIN 1069141 & BIN 1069142	JD-24 - JD-28
393-394	BIN 1072530, JOINT DETAILS	JD-29 + JD-30
395-396	BIN 1072571, JOINT DETAILS	JD-31 + JD-32
397-398	BIN 1072572, JOINT DETAILS	JD-33 + JD-34
399-400	BIN 1072581, JOINT DETAILS	JD-35 + JD-36
401-402	BIN 1072582, JOINT DETAILS	JD-37 + JD-38
403-404	BIN 1072781, JOINT DETAILS	JD-39 + JD-40
405-406	BIN 1072782, JOINT DETAILS	JD-41 + JD-42
407-408	BIN 1072792, JOINT DETAILS	JD-43 + JD-44
409-410	BIN 1093510, JOINT DETAILS	JD-45 + JD-46
411	BIN 1072791, BIN 1093520 & BIN 1093540, JOINT DETAILS	JD-47
412-413	BIN 1093550, JOINT DETAILS	J0-48 + JD-49
414-416	BIN 1093561 & BIN 1093562, JOINT DETAILS	JD-50 - JD-52
417-420	BIN 1093571 & BIN 1093572, JOINT DETAILS	JD-53 - JD-56
421-423	BIN 1093671 & BIN 1093672, JOINT DETAILS	JF-57 - JD-59

NO. DESCRIPTION 424 VARIOUS BRIDGES - ROAD PLATE DETAIL BAR LIST 25-428 ALL BINS (BRIDGE JOINT SYSTEMS) 429 BIN 1002131 & 1002132 430 BIN 1093571 431 STRUCTURAL SLAB OVERLAY & ASPHALT PAVEMENT REPAIR DETAILS 432 MISC. TABLE	BL-1 - BL-4 BL-5 BL-6 MS-1 MT-1
BAR LIST 25-428 ALL BINS (BRIDGE JOINT SYSTEMS) 429 BIN 1002131 & 1002132 430 BIN 1093571 431 STRUCTURAL SLAB OVERLAY & ASPHALT PAVEMENT REPAIR DETAILS	BL-1 - BL-4 BL-5 BL-6
BAR LIST 25-428 ALL BINS (BRIDGE JOINT SYSTEMS) 429 BIN 1002131 & 1002132 430 BIN 1093571 431 STRUCTURAL SLAB OVERLAY & ASPHALT PAVEMENT REPAIR DETAILS	8L-5 BL-6 MS-1
425-428 ALL BINS (BRIDGE JOINT SYSTEMS) 429 BIN 1002131 & 1002132 430 BIN 1093571 431 STRUCTURAL SLAB OVERLAY & ASPHALT PAVEMENT REPAIR DETAILS	8L-5 BL-6 MS-1
429 BIN 1002131 & 1002132 430 BIN 1093571 431 STRUCTURAL SLAB OVERLAY & ASPHALT PAVEMENT REPAIR DETAILS	8L-5 BL-6 MS-1
431 STRUCTURAL SLAB OVERLAY & ASPHALT PAVEMENT REPAIR DETAILS	BL-6 MS-1
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FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL
1	N.Y.	D259214	6	432
		ATION PROJECT (ELEMENT SPE	CIFIC)	L
VARIOUS B	RIDGE	ON INTERSTATE 481		
TOWN OF	DEWITT	AND CICERO		· · · · · · · · · · · · · · · · · · ·
ONONDAGA	COUNTY			
P.I.N. 3056	513	B.I.N. VARIOUS	 , ,	

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SIGNATURE

DATE

INTERSTATE 481 REHABILITATION PROJECT

INDEX



STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

FILENAME REGION DATE DRAWING NO. 305613AA12A 3 10/02 IDX-2

7751	DESCRIPTION	UNIT	107	704	1070	700	107	2701	1072	702	100	3510	1093	520	1093	3540
ITEM *	DESCRIPTION	UNIT	1072	FINAL	1072	FINAL		2791 FINAL		FINAL		FINAL	EST.	,	EST.	
	A SICONOLIA	CM	2	TITAL	201.	1 MINL	2	1 INAL	231.	THAL	EJ1.	TANAL	2011	TITAL	L31.	1 211/02
203.02 M	UNCLASSIFIED EXCAVATION & DISPOSAL	CM														
203.03 M	EMBANKMENT IN PLACE	CM														
203.07 M	SELECT GRANULAR FILL	y v		 												
203.1770 M	CLEAN EXISTING PIPE CULVERY	u														
203.18 M	CLEANING CLOSED DRAINAGE SYSTEMS CLEAN DRAINAGE STRUCTURES AND MANHOLES	EA														
203.19 M	SELECT STRUCTURE FILL	CM														
203.21 M	GRADING, CLEANING AND RESHAPING EXISTING DITCHES	W													· ·	
15203.51 M	STRUCTURE EXCAVATION	CM														
206.01 M	TRENCH AND CULVERT EXCAVATION	СМ													-	
206.02 M	GEOTEXTILE BEDDING	SM														
207.10 M	REMOVAL AND DISPOSAL OF ASBESTOS CONTAINING CAULKING (BY 12)	LS											-		-	
210.5433 M	REMOVAL AND DISPOSAL OF MISC. ASBESTOS CONTAINING MATERIAL BY-12	LS											NEC			
210.9913 M	SUBBASE COURSE, OPTIONAL TYPE	CM									-					
304.15 M	12.5mm F2 SUPERPAYE HMA, 80 SERIES COMPACTION	นา	3				3				3					
402.128201 M 402.128211 M	PLANT PRODUCTION QUALITY ADJUSTMENT TO ITEM 402.128201M	dn	1				1				1					
402.128211 M 402.258901 M	25mm F9 SUPERPAYE HMA, 80 SERIES COMPACTION	nı.	<u> </u>								4					
402.258901 M	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402,258901M	dn									1					
402.258911 M 402.378901 M	37.5mm, F9 SUPERPAYE HMA, 80 SERIES COMPACTION	ur ur		1												
	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.378901M	GI												-		
402.378911 M	TACK COAT		5				5				9					
407.01 M	MISC. COLD MILLING OF BITUMINUS CONCRETE	SM				1					25					
490,30 M		У											21		21	
502.92 M	SEALING TRANSVERSE JOINTS SAWCUT, ASPH, CONC/ASPH, OVERLAY- PCC PAVE	N N	74	1			48				17					
08520.5014 M	·	SM	1				70									
552.13 M	TEMPORARY STEEL SHEETING	СМ	1	 												
555,0105 M	CONCRETE FOR STRUCTURES - CLASS A	CX	3	 	1				1		1				-	
555.09 M	CONCRETE FOR STRUCTURES, CLASS HP	LM	6		<u> </u>	-					-					
18555.81 M	STRUCTURAL CRACK SEALING	KG	6	-												
556.0201 M	UNCOATED BAR REINFORCEMENT FOR CONCRETE STRUCTURES	XG XG	70	1	70				71		52					
556.0202 M	EPOXY COATED REBAR FOR STRUCTURES	SM	18	-	72		17		-11		52					
558.01 M	TRANSVERSE SANCUT GROOVING OF STR SLAB SURF	2H	18	-	-		17									
18559.1696 M	TROTEGIES SERVER STROTEGIES SONGETE	SH	-							-						
18559.1896 M	PROT SEAL STR. CONC NEW BRIDGE DECK OVERLAYS			-				-								
564.0501 M	STRUCTURAL STEEL	LS EA		 	-											
565.1522 M	TYPE M.R. EXPANSION BEARING (1001 TO 2000 KN)		+==	 												
565.1722 M	TYPE M.R. FIXED BEARING (1001 TO 2000 KN)	EA EA	10	 	-	<u> </u>	10	 	10							
15565.4302 M	BRIDGE BEARING RESTORATION	EA V	10		-		10		10					 		
566.01 M	MODULAR EXPANSION JOINT SYSTEM, ONE-CELL		-	 	+=-			 								
566.02 M	MODULAR EXPANSION JOINT SYSTEM TWO-CELL	<u> </u>	1	 	1		-	 				-		-		
567.31 M	ARM JNT SYS WI COMPRESSION SEAL - TY A1	<u> </u>	13	 	13			 	14							
567.32 M	ARM JNT SYS WI COMPRESSION SEAL - TY A2	<u> </u>	17	 	1	 	-	 	14			<u> </u>				
567.35 M	ARM JNT SYS WI COMPRESSION SEAL - TY A5		13	 	13											
567.36 M	ARM JNT SYS WI COMPRESSION SEAL - TY AG	V V		-												
18567.46 M	ELASTOMERIC CONCRETE FOR BRIDGE JOINT SYSTEMS	u u		-	26		28		26		18		10		10	
16567.640001 M	REPLACE COMPRESSION SEAL IN EXISTING BRIDGE JOINTS			 	-		28					-	10			
568.32 M	CEMENT MORTAR PADS	EA.			-			-								
568.50 M	STEEL BRIDGE RAILING (2 RAIL)	LS	 	 				-								
570.090001 M	ENVIRONMENTAL GROUND PROTECTION	LS		 												
570.090002 M	ENVIRONMENTAL GROUND PROTECTION	LS		 		 		-				 				
570.090003 M	ENVIRONMENTAL GROUND PROTECTION	r ₂	+	1	1	 										
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REG. NO.	STATE	CONTRACT		SHEET NO.	TOTAL
1 .	N.Y.	D2592	214	186	432
BRIDGE RE	HABILIT	ATION PROJECT (EI	EMENT SPEC	CIFIC)	
VARIOUS B	RIDGES	ON INTERSTATE 48	31		
TOWNS OF	DEWITT	AND CICERO			
ONONDAGA	COUNTY	,			
P.I.N. 3056	613	8.1	N. VARIOUS		

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AS BUILT REVISIONS

SIGNATURE DATE

SHEET 7 OF 12

ESTIMATE OF QUANTITIES



STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING NO. QE-3A DATE 10/02 FILENAME 305613.L1A REGION 3

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		ESTI	MATE (OF QUA	NTITIE	S BY	STRUC	TURE								
ITEM *	DESCRIPTION	UNIT	JNIT 1072781		1072	782	107	2791	107	1072792		3510	1093	3520	109	3540
			EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL
570.090004 M	ENVIRONMENTAL GROUND PROTECTION	LS								 	 			 		
570.100001 M	ENVIRONMENTAL WATERWAY PROTECTION	LS									t					
570,100002 M	ENVIRONMENTAL WATERWAY PROTECTION	LS									 	l				
16570.32 M	LOCALIZED PAINTING OF BARE STRUCTURAL STEEL	SM										<u> </u>			†	
16570.72 M	LOCALIZED VACUUM CONTAINED CLEANING OF STRUCTURAL STEEL PLANAR SURFACES	SM										 			1	
16570.76 M	LOCALIZED VACUUM CONTAINED CLEANING OF STRUCTURAL STEEL - IRREGUALR	SM														1
571.010001 M	TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE	CM													1	
571.010002 M	TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE	СМ														
571.010003 M	TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE	CM														
571,010004 M	TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE	CM														
572,010001 M	STRUCTURAL STEEL PAINT SYSTEM SHOP APPLIED	sũ													1	
572.010002 M	STRUCTURAL STEEL PAINT SYSTEM SHOP APPLIED	SM													1	
576.2001M	DOWNSPOUT SYSTEM, DUCTILE IRON	М														
578.020001 M	OVERLAY CONCRETE - CLASS E	SM														
578.020002 M	OVERLAY CONCRETE - CLASS E	su														
578,020003 M	OVERLAY CONCRETE - CLASS E	SM														
578.020004 M	OVERLAY CONCRETE - CLASS E	SH														
578.020005 M	OVERLAY CONCRETE - CLASS E	SM														
578.030001 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM														
578.030002 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM	L											***************************************	—	
578.030003 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM.														
578.030004 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM													 —	
578.030005 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM														
578.030006 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	271	18					·								
578.030007 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM					17									
579.02 M	REINFORCING BAR EXPOSURE	SM	26		8		17		8							
580.01 M	REMOVAL OF STRUCTURAL CONCRETE	CN	3		3				3		1			*****		
582.05 M	REMOVE STRUCTURAL CONCRETE WITH CLASS A CONCRETE	Cri	1		1		1				1		1		2	
582.07 M	REMOVE STRUCTURAL CONCRETE AND REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL	SM														
16584.13 M	RAPID SETTING CONCRETE FOR BRIDGE AND APPROACH SLAB REPAIRS	KG														
585.01 M	STRUCTURAL LIFTING OPERATIONS - TYPE A	EA	10				10		10							
585,02 M	STRUCTURAL LIFTING OPERATIONS - TYPE B	EA														
585.03 M	STRUCTURAL LIFTING OPERATIONS TYPE C	EA														
586.01 M	DRILL AND GROUT BOLTS, OR REINFORCING BARS	m.an	6000		6000				6600		4200			***************************************		
17586.18M	DRILLING HOLES IN EXISTTING SUBSTRUCTURE	u														
16586.200125 M	DRILL AND GROUT ANCHOR BOLTS AND REBAR IN CONCRETE	EA														
16586.200216 k	DRILL AND GROUT ANCHOR BOLTS AND REBAR IN CONCRETE	EA														
587.01 M	BRIDGE RAILING REMOVAL AND DISPOSAL	М														
589,520001 M	REMOVAL OF EXISTING STEEL	EA														
589.520002 M	REMOVAL OF EXISTING STEEL	EA													_	
589.520003 M	REMOVAL OF EXISTING STEEL	EA														
589.520004 M	REMOVAL OF EXISTING STEEL	EA]									
589.520005 M	REMOVAL OF EXISTING STEEL	EA					$=$ \square]		I					
590.01M	VERTICAL ADJUSTMENT OF BRIDGE DRAINAGE DEVICES	EA					$=$ \square]							
603.6001 M	REINFORCED CONCRETE PIPE CLASS III, 300 mm	и						I]					
603.7301M	REINFORCED CONCRETE PIPE END SECTION 300 mm DIAMETER	EA								I	<u> </u>					
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REG. NO.	STATE	DOFOOA A	SHEET NO.	SHEETS
1	N.Y.	D259214	187	432
BRIDGE RE	HABILITA	ATION PROJECT CELEMENT SPE	CIFIC)	<u> </u>
VARIOUS E	RIDGES	ON INTERSTATE 481		
TOWNS OF	DEWITT	AND CICERO		
ONONDAGA	COUNTY			
P.I.N. 305	613	B.I.N. VARIOUS		

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AS BUILT REVISIONS

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DATE

SHEET 8 OF 12

ESTIMATE OF QUANTITIES



STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION

FILENAME REGION DATE DRAWING NO. 305613.11A 3 10/02 QE-38

		ESTI	AATE (OF QUA	NTITIE	S BY S	STRUC	TURE									FED ROAD STATE	D259	
ITEM *	DESCRIPTION	UNIT	1072	781 FINAL	1072	782 FINAL		2791 FINAL	1072	792 FINAL	1093	510 FINAL	1093	520 FINAL	1093	540 FINAL	BRIDGE REHABILI	I ITATION PROJECT	Œ
605 0001 14	UNDERORAIN FILTER TYPE 1	CM	231.	FIRAL	E31.	FINAL		FINAL		FINAL		FINAL		FINAL	ESI.	FINAL	TOWNS OF DEWIT		4
<u> </u>	OPT. UNDERDRAIN PIPE 150 mm #	N.	 		+==	<u> </u>		 		 				 	-	 	ONONDAGA COUNT		_
	CORRUGATED BEAM GUIDE RAILING TRANSITION ASSEMBLY, TWO RAIL, STEEL BRIDGE RAILING	EA	 	 				<u> </u>		 					 	 	PJ.N. 305613		8.1.
90010133	TRANSITION BRIDGE RAILING TO BOX BEAM GUIDE RAIL	u u	† <u> </u>	 	 	 				<u> </u>						 			
	RESETTING EXISTING CURB	N N	1	 	 	†		1						 					
	ESTABLISH TURF	SM			† =					 			<u> </u>	 	+=				
	CLASS II TYPE B EROSION CONTROL MATERIAL	SM		1	1=			<u> </u>		 					=				
	TREE AND VEGETATION BARRIER	M		 									-	 	 -	 			
	STONE FILLING CLICHT)	CM		 	†						=			 					
	SURVEY AND STAKEOUT	LS		 				 					_==_	 	-	 			
7.3.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.	CONCRETE CYLINDER CURING BOX	EA	1		 			 						 	 				
	ENGINEER'S OFFICE TYPE C	HTML	 				_=				_=_			 		 			
		LS	 ==	 	_									 	 -				
	FURN PORTABLE CELLULAR TELEPHONE EQUIP.	EA		 	 		_===.							 	 				
	MICRO COMPUTER SYSTEM	1		 	 == -														
15637.61 M	CPM SCHEDULE	LS	├─-	 									_===	 -					
15637.51 M	DIGITAL CAMERA SYSTEM	LS		 		1		-		 				 	-	 			
	CHAMPS MANAGEMENT SYSTEM	LS	 	 	 -		_===			 	_==-			 					
	PARTNERING WORKSHOP	LS	-	 	├										 				
	WHITE PAINT REFLEC PAVEMENT STRIPES-0.38 mm	<u> </u>	 == -		<u> </u>		_=				4								
	YELLOW PAINT REFLEC PAVEMENT STRIPES-0.38 mm	_w			 	 					3				<u> </u>				
14646,10 M	MILLED IN AUDIBLE ROWAY DELINS MIARD)	 		 -	 -	ļ					_=_				 -				
23675.15M	FURNISH AND PLACE STONE BALLAST SURFACING COURSE	<u>ur</u>	==	ļ	<u> </u>														
	WHIT POLYESTER REFLEC PAVEMENT STRIPE	u	 	 	 						4								
91685.0706 M	YEL POLYESTER REFLEC PAVENENT STRIPE	М									3								
697.02 M	FIELD CHANGE ORDER	LS		ļ	<u> </u>														
699.040001 M	MOBILIZATION	LS	HEC	ļ	NEC		NEC		NEC		NEC		NEC		NEC				
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REG. NO.	STATE	CONTRA			SHEET NO.	SHEE	
1	N.Y.	D259	321	4	188	43	
BRIDGE RE	HABILIT	ATION PROJECT	ŒLEME	NT SPEC	IFIC)	<u> </u>	
		ON INTERSTATE					
TOWNS OF	DEWITT	AND CICERO					
ONONDAGA	COUNTY						
PJ.N. 305	613		B.I.N. V	ARIOUS			

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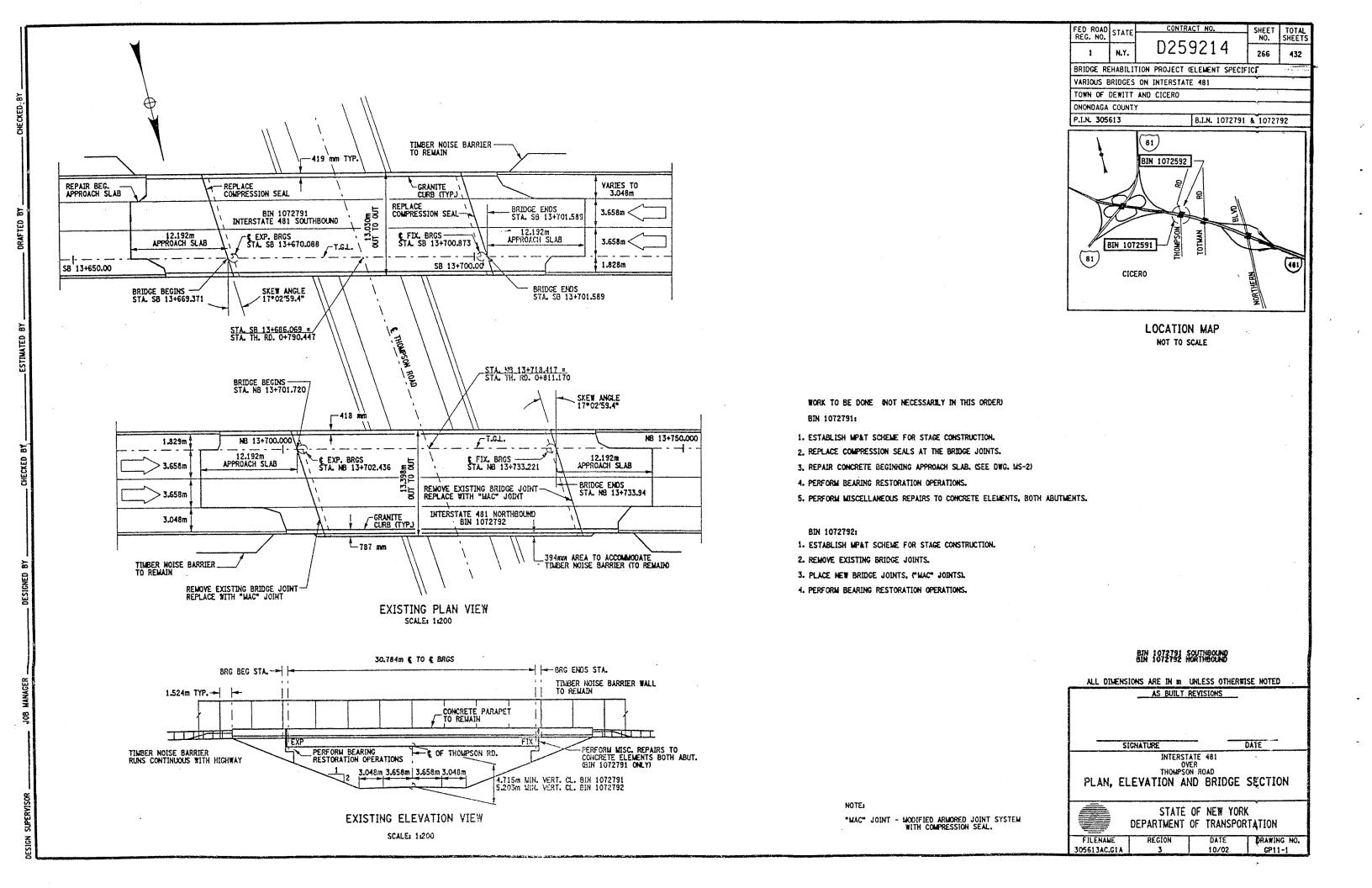
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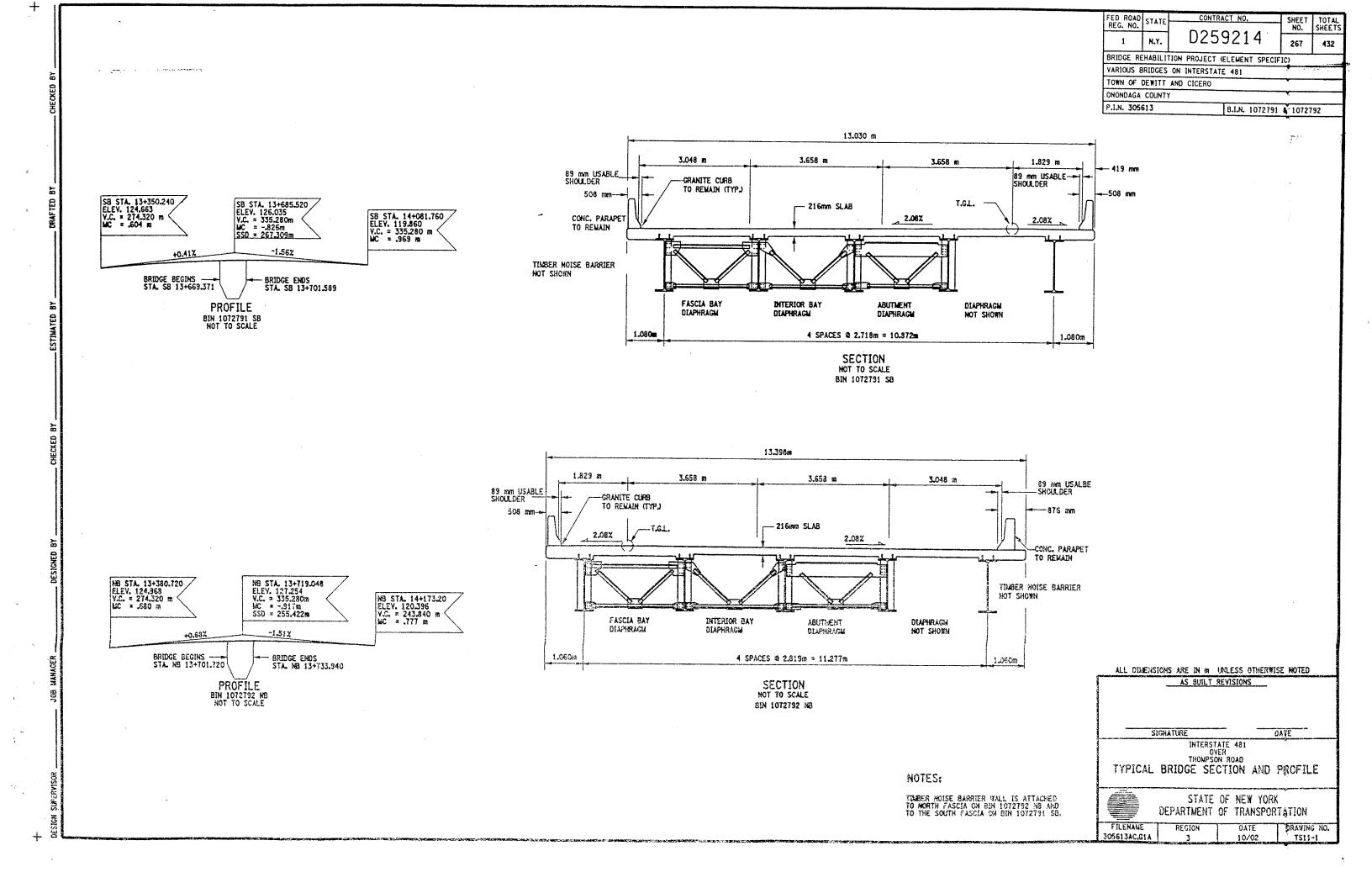
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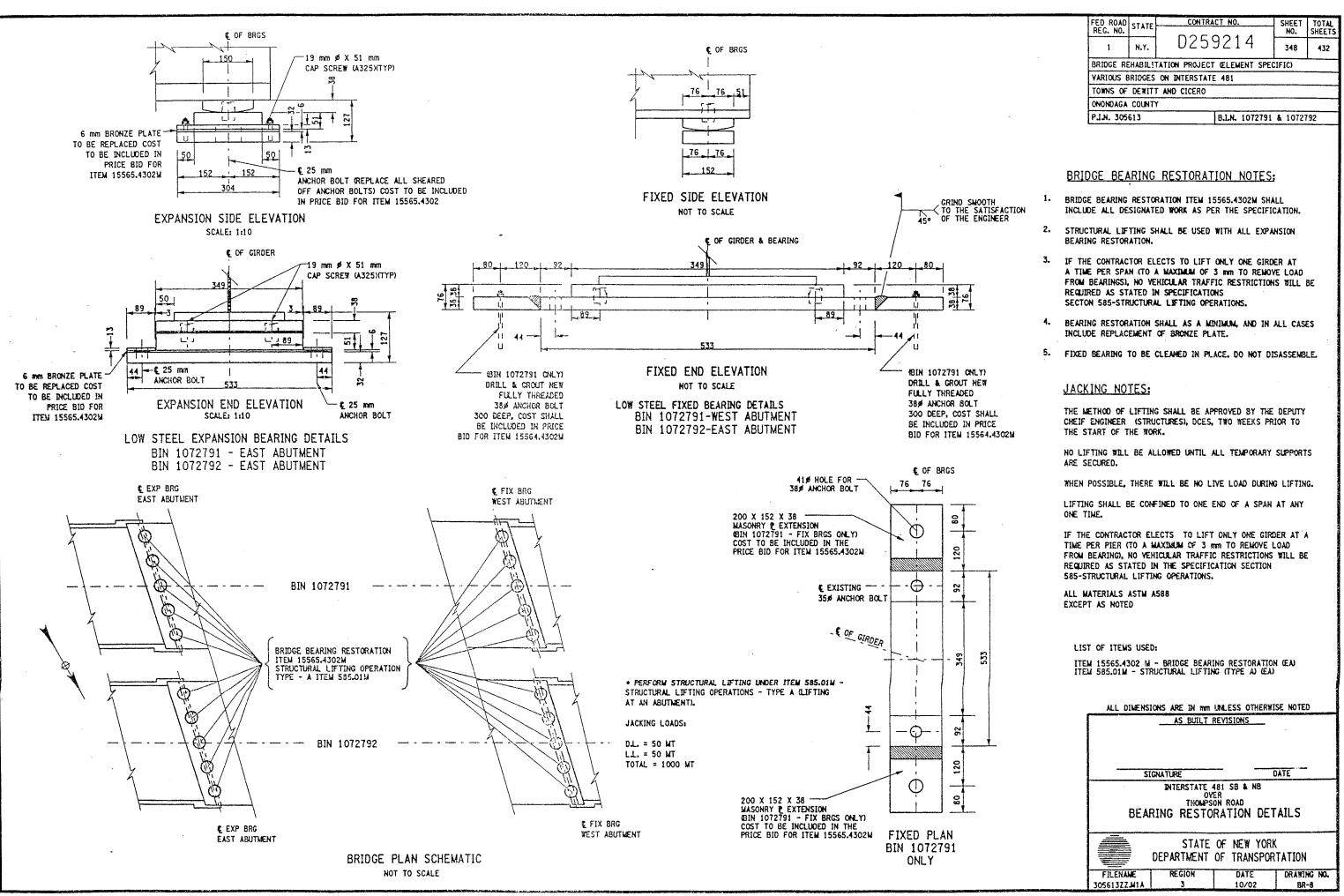
QUANTITIES

OF NEW YORK OF TRANSPORTATION

DATE 10/02 DRAWING NO. QE-3C 305613.L1A







NUMBER LOCATION JOINT SKEW MCTERS RT	B.I.N.	JOINT		SPAN(S) LENGTH FOR	JO: BE	ND	EXISTING	PROPOSED	CURB TO CURB DISTANCE	FASCIA & MEDIAN	TOTAL LENGTH	JOINT ITEM	DF	RAWING NUM	~
1072530 EAST ABUT. 0°-00'-00" 33.528 N N ACJ MAC-5 15.850 .4577.457 16.764 567.35M JD-30 JD-29 JD-30 MEST ABUT. 0°-00'-00" 37.795 N N ACJ MAC-5 15.850 .4577.457 16.764 567.35M JD-30 JD-29 JD-30 JD-29 JD-30 JD-29 JD-30 JD-29 JD-30 JD-29 JD-30			JOINT SKEW	JOINT			JOINT TYPE	JOINT TYPE	i	LENGTH (METERS) LT/RT	(METERS)	NUMBER(S)		PLAN VIEW	FASCIA DETAIL
No. No.															
No. No.															
WEST ABUT. O°-00'-00' 37.795 N N ACJ MAC-5 15.850 .457/.457 16.764 567.35M JD-30 JD-29 JD-30 JD-29 JD-30 JD-29 JD-30 JD-								1110 5	45.050	457 4 457					
1072571 SOUTH ABUT. 20°-29'-45.2" 44.196 N N ACJ MAC-6 14.481 .488/.488 15.457 567.36M JD-32 JD-31 JD-31 JD-31 JD-31 JD-32 JD-31 JD-31 JD-32 JD-31 JD-33 JD-31 JD-33 JD-34 JD-33 JD-34 JD-33 JD-34 JD-33 JD-34 JD-33 JD-34 JD-33 JD-34 JD-33 JD-35	072530	EAST ABUT.	0°-00'-00"											1	JD-30
NORTH ABUT. 20~29"-45.2" N N N ACJ MAC-1 15.456 .488/.488 16.428 567.31M JD-32 JD-31 JD-32 JD-31 JD-32 JD-33 JD-34 JD-35 JD-		WEST ABUT.	0°-00'-00"	37.795	N	N	ACJ	MAC-5	15.850	.457/.457	16.764	567.35M	JD-30	JD-29	JD-30
NORTH ABUT. 20~29~45.2° N N N ACJ MAC-1 15.456 .488/.488 16.428 567.31M JD-32 JD-31 JD-30 JD		-					101	1410.6	4.4.404	400 / 400	45 457	EC7 7CM		ļ	10:70
1072572 SOUTH ABUT. 21°-09′-2.1" 44.196 N N ACJ MAC-6 12.746 .490′.490 13.726 567.35M JD-34 JD-33 JD-31 JD-32 JD-33 JD-34 JD-33 JD-34 JD-33 JD-34 JD-33 JD-34 JD-33 JD-34 JD-33 JD-34 JD-34 JD-33 JD-34 JD-34 JD-33 JD-34 JD-35 JD-3	1072571			44.196										1	JD-32
NORTH ABUT. 21°-09°-2.1" N N ACJ MAC-1 12.746 .490/.490 13.726 567.31M JD-34 JD-33 JD-36 JD-35 JD-36		NORTH ABUT.	20°-29′-45.2"		N	N ·	AUJ	MAC-1	15.456	.488/.488	16.428	201°21W	JD-32	JU-31	JD-32
NORTH ABUT. 21°-09°-21" N N ACJ MAC-1 12.746 .490/.490 13.726 567.31M JD-34 JD-33 JD-35			040 004 0 41	11100	1	NI NI	ACI	VAC C	10.740	490 / 490	17 700	567 3611	10.74	10.77	10.74
1072581 SOUTH ABUT. 3°59'-27.5" 37.033 N N ACJ MAC-5 11.917 .458/.458 12.833 567.35M JD-36 JD-35 JD-36 NORTH ABUT. 3°-59'-27.5" N N ACJ MAC-1 11.917 .458/.458 12.833 567.31M JD-36 JD-35 JD-37 JD-38 NORTH ABUT. 3°-51'-57.9" 37.033 N N ACJ MAC-5 11.915 .458/.458 12.831 567.35M JD-38 JD-37 JD-38 NORTH ABUT. 3°-51'-57.9" N N ACJ MAC-1 11.915 .458/.458 12.831 567.31M JD-38 JD-37 JD-38 JD-37 JD-38 NORTH ABUT. 3°-51'-57.9" N N ACJ MAC-1 11.915 .458/.458 12.831 567.31M JD-38 JD-37 JD-38 JD-37 JD-38 NORTH ABUT. 16°-26'-24" N N ACJ MAC-1 11.915 .458/.458 12.831 567.31M JD-40 JD-39 JD-39 JD-39 NORTH ABUT. 16°-26'-24" 33.635 N N ACJ MAC-5 12.500 .530/.530 13.560 567.31M JD-40 JD-39	1072572			44.196			1		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~					1	JD-34 JD-34
NORTH ABUT. 3°-59'-27.5" N N ACJ MAC-1 11.917 A58/.458 12.831 567.31M JD-36 JD-35 JD-37 JD-36 JD-37 JD-36 JD-37 JD-36 JD-37 JD-36 JD-37 JD-36 JD-37 JD-36 JD-37 JD-37 JD-38 JD-3		NORTH ABUI.	21°-09′-2.1"		N	- 14	ACU .	MAC-1	12.145	.4907.490	13.120	JOTAJIM	30-34	30-33	30-34
NORTH ABUT. 3°-59'-27.5" N N ACJ MAC-1 11.917 A58/.458 12.831 567.31M JD-36 JD-35 JD-37 JD-36 JD-37 JD-36 JD-37 JD-36 JD-37 JD-36 JD-37 JD-36 JD-37 JD-36 JD-37 JD-37 JD-38 JD-3			7050/ 07:58	77 077	NI NI	NI .	ACI	MAC-5	11 917	458/458	12.833	567.35M	10-36	10-35	JD-36
1072782 SOUTH ABUT. 3°-51′-57.9" 37.033 N N ACJ MAC-5 11.915 .458/.458 12.831 567.35M JD-38 JD-37 JD-38 NORTH ABUT. 3°-51′-57.9" — N N ACJ MAC-1 11.915 .458/.458 12.831 567.31M JD-38 JD-37 JD-39 JD-39 NEST ABUT. 16°-26′-24" 33.635 N N ACJ MAC-1 12.500 .530/.530 13.560 567.31M JD-40 JD-39 JD-39 JD-39 JD-39 NEST ABUT. 16°-26′-24" 31.394 N N ACJ MAC-5 12.500 .530/.530 13.560 567.35M JD-40 JD-39 JD-40 NEST ABUT. 16°-26′-24" 31.394 N N ACJ MAC-5 12.500 .530/.530 13.649 567.35M JD-42 JD-41 JD-42 NEST ABUT. 17°-02′-59.4" 30.785 N N ACJ MC-5 12.566 .531/.531 13.628 16567.64M JD-47 JD-43 JD-40 NEST ABUT. 17°-02′-59.4" 30.785 N N ACJ MC-5 12.566 .531/.531 13.628 16567.64M JD-47 JD-43 JD-40 NEST ABUT. 17°-02′-59.4" 30.785 N N ACJ MC-5 12.566 .531/.531 13.628 16567.64M JD-47 JD-43 JD-40 NEST ABUT. 17°-02′-59.4" 30.785 N N ACJ MC-5 12.566 .530/.530 14.015 567.35M JD-44 JD-43 JD-40 NEST ABUT. 17°-02′-59.4" 30.785 N N ACJ MC-5 12.566 .530/.530 14.015 567.35M JD-44 JD-43 JD-40 NEST ABUT. 17°-02′-59.4" 30.785 N N ACJ MC-5 12.566 .530/.530 14.015 567.35M JD-44 JD-43 JD-40 NEST ABUT. 17°-02′-59.4" 30.785 N N ACJ MC-5 12.566 .530/.530 14.015 567.35M JD-44 JD-43 JD-40 NEST ABUT. 17°-02′-59.4" 30.785 N N ACJ MC-5 12.566 .530/.530 14.015 567.35M JD-44 JD-43 JD-45	1072581			31.033										1	JD-36
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1072782 EAST ABUT. 16°-26′-24" — N N ACJ MAC-1 13.183 .530/.530 14.243 567.31M JD-42 JD-41 JD-42 MEST ABUT. 16°-26′-24" 31.394 N N ACJ MAC-5 12.589 .530/.530 13.649 567.35M JD-42 JD-41 JD-41 JD-42 MEST ABUT. 17°-02′-59.4" 30.785 N N ACJ RCS 12.566 .531/.531 13.628 16567.64M JD-47 JD-43 JD-42 MAC-5 12.566 .531/.531 13.628 16567.64M JD-47 JD-43 JD-42 MAC-5 12.566 .531/.531 13.628 16567.64M JD-47 JD-43 JD-42 MAC-5 12.566 .530/.530 14.015 567.35M JD-44 JD-43 JD-43 JD-44 MAC-5 12.566 .530/.530 14.015 567.31M JD-44 JD-43 JD-43 JD-44 JD-43 JD-44 JD-43 JD-44 JD-43 JD-44 JD-43 JD-44 JD-43 JD-44 JD-45 J	1012101			33 635											JD-40
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WEST ABUT. 17°-02′-59.4" — N N ACJ RCS 12.566 .531/.531 13.628 16567.64M JD-47 JD-43 JD-44 JD-45		WEST ABOTE		011031	 						d-100-100-100-100-100-100-100-100-100-10				
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1072792 EAST ABUT. 17°-02′-59.4" 30.785 N N ACJ MAC-5 12.566 .530/.530 14.015 567.35M JD-44 JD-43 JD-43 JD-45 JD-4	1012131				-	 	ACJ	RCS	12.566	.531/.531	13.628	16567.64M	JD-47	JD-43	JD-47
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15.000	1093510	WEST ABUT.	44°-07′-00"		N	N	ACJ/ADA	RCS	16.560	.637/.637	17.834	16567.64M	JD-46	JD-45	JD-46
				37.522	-	N	ADA	RADA	15.620		15.620		JD-46	JD-45	
			12												

INFORMATIONAL NOTES:

BIN 1072530 - NO JOINT AT PIER.

BIN 1072791 - REPLACE COMPRESSION SEALS BEG. ABUT. CEAST), TYPE A-5 END ABUT. (WEST), TYPE A-1

FOR JOINT DETAILS REFER TO THE FOLLOWING DRAWINGS;

DWG. NO. JD-1 - MODIFIED ARMORED COMPRESSION SEAL JOINT SYSTEM. DWG. NO. JD-24 - OHE-CELL MODULAR JOINT SYSTEM. DWG. NO. JD-25 - TWO-CELL MODULAR JOINT SYSTEM.

LIST OF BRIDGE JOINT ITEMS USED:

ITEM 566.01M - MODULAR EXP. JOINT SYSTEM ONE-CELL GM)
ITEM 566.02M - MODULAR EXP. JOINT SYSTEM TWO-CELL GM)
ITEM 567.31M - MODIFIED ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A1 (m)
ITEM 567.35M - MODIFIED ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A2 (m)
ITEM 567.35M - MODIFIED ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A5 (m)
ITEM 567.35M - MODIFIED ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A6 (m)
ITEM 16567.640001M - REPLACE COMPRESSION SEAL FOR EXISTING BRDGE JOINTS (m)

FED ROAD	STATE	CONTRA	CT NO.		SHEET	TOTAL			
REG. NO.		חחר	2044		NO.	SHEETS			
1	N.Y.	D259	362	432					
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)									
VARIOUS E	RIDGES	ON INTERSTATE	481						
TOWNS OF DEWITT AND CICERO									
ONONDAGA COUNTY									
P.I.N. 305	613		B.I.N. ALL	BINS					

LEGEND

EXISTING JOINT TYPE:

ACJ = ARMORED COMPRESSION JOINT SYSTEM MOD = MODULAR JOINT SYSTEM

= MODIFIED ARMORED COMPRESSION SYSTEM (NO HORIZ. ARMORING ANGLE)

ADA = ARMORED DECK ANGLE SS = STRIP SEAL JOINT

OPEN = OPEN JOINT

PROPOSED JOINT TYPE:

MAC-1 = MOD. ARM./COMP. SEAL JT. SYS. (A-1) MAC-2 = MOD. ARM./COMP. SEAL JT. SYS. (A-2) MAC-5 = MOD. ARM./COMP. SEAL JT. SYS. (A-5) MAC-6 = MOD. ARM./COMP. SEAL JT. SYS. (A-6)

RCS = REPLACE EXISTING COMPRESSION SEAL

RADA = REMOVE ARMOR DECK ANGLE MOD-1 = MODULAR JT. SYS. (ONE-CELL) MOD-2 = MODULAR JT. SYS. (TWO-CELL)

JOINT BEND LOCATION:

N = NO BENDS CRB = CURB LINE PAV'T = PAVEMENT

GENERAL NOTES:

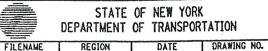
305613AJJJA1

- ALL MEASUREMENTS SHALL BE FIELD VERIFIED.
- CURB TO CURB LENGTHS ARE MEASURED ALONG & OF JOINT.
- MULTIPLE DIMENSIONS ARE SHOWN LOOKING UP-STATION, LEFT TO RIGHT.
- ALL DIMENSIONS ARE SHOWN IN METERS.

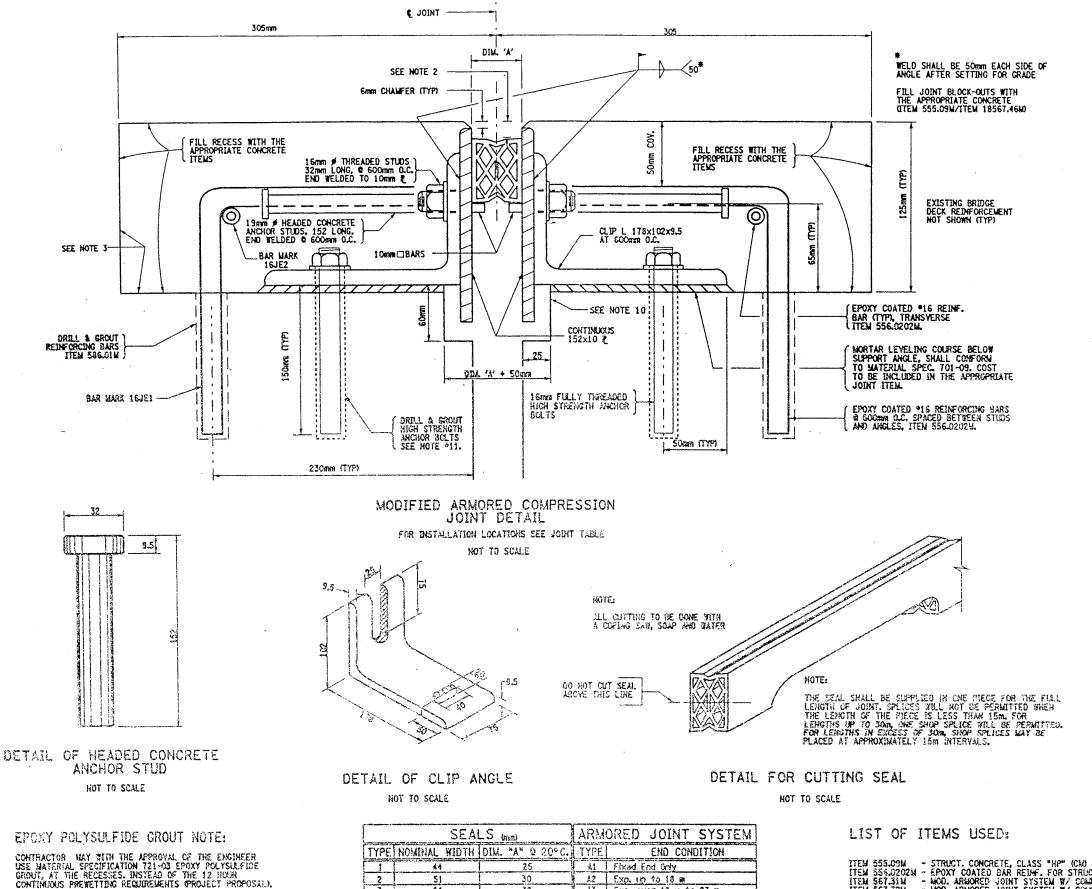
DIMENSIONS	ARE IN m	UNLESS	OTHERWISE	NOTED
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INTERSTATE 481 VARIOUS BRIDGES

BRIDGE JOINT TABLE



10/02



FED ROAD STATE CONTRACT NO. SHEET NO. TOTAL D25921 365 432 BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC) VARIOUS BRIDGES ON INTERSTATE 481 TOWNS OF DEWITT AND CICERO ONONDAGA COUNTY P.I.N. 305613 B.I.N. ALL BIN'S

GENERAL NOTES:

- 1. THE TEMPERATURE OF THE BRIDGE MUST BE TAKEN ON THE STRUCTURAL STEEL SURFACE TO DETERMINE THE TEMPERATURE CORRECTION FOR THE JOINT OPENINGS.
- 2. THIS DEPTH SHALL BE INDICATED ON THE SHOP DRAWINGS AND SHALL BE SUCH THAT WHEN THE SEAL IS COMPRESSED TO 50% OF ITS NORMAL WIDTH, THE TOP OF THE SEAL SHALL BE NOT LESS THAN 6mm NOR MORE THAN 19mm BELOW THE TOP OF THE ROADWAY.
- 3. RECESSES RECEIVING ITEM 555.09M. AFTER SURFACE PREPARATION, THOROUGHLY WET THE CONCRETE SURFACE AND ALL POROUS SURFACES TO BE IN CONTACT WITH NEW CONCRETE, FOR 12 HOURS. NOTE THE USE OF MATERIAL SPECIF. 705-22 PORTLAND CEMENT MORTAR BONDING GROUT HAS BEEN ELIMINATED, SEE INSERT IN PROJECT
- 4. A WATER-TIGHT INTEGRITY TEST SHALL BE PERFORMED BY THE CONTRACTOR AT ALL COMPRESSION SEAL JOINT INSTALLATIONS. THE FOLLOWING TEST PARAMETERS SHALL BE INCORPORATED IN THE TEST:
 - 1. A 15 MEMUTE MINIMUM PERIOD OF STANDING WATER, WITH A 25mm MINIMUM DEPTH SHALL BE USED.
 - 2. IN ADDITION, IN LOCATIONS OF COPED AREAS OF THE SEAL, BENDS, ETC., WATER PRESSURE SHALL BE APPLIED, TO THE SATISFACTION OF THE EIC FOR A 15 MINUTE PERICO.
 - 3. LIMITS OF TEST AREA SHALL BE FROM FACE OF CURB TO FACE OF CLIRB ON THE DECK SURFACE.
- 5. NO PAYMENT WILL SE MADE TO THE CONTRACTOR FOR THE JOINT IF, IN THE OPINION OF THE ENGINEER, THE INSTALLED JOINT LEAKS WITHIN THE 15
- 6. PRIOR TO THE START OF BORK AT EACH JOINT, THE CONTRACTOR SHALL SUBMIT A BRITTEN PLAN FOR THE SPECIFICS OF THE TESTENG, INCLUDING CONTAINMENT OF THE BATER AND THE METHOD TO BE USED FOR ACCESS BY THE ELIC, TO THE BOTTOM OF THE JOINT BEING TESTED.
- 7. THE COST OF ALL LABOR, EQUIPMENT AND MATERIALS REQUIRED FOR THE TESTING WHICH INCLUDES, BUT IS NOT LIMITED TO:
 - 1. A CONTAINMENT SYSTEM FOR THE TEST WATER.
 - 2. PROVISIONS FOR ELLC. ACCESS TO THE BOTTOM OF THE JOINT. SHALL BE INCLUDED IN THE PRICE BID FOR THE RESPECTIVE JOINT ITEMS.
- 8. THE COST OF ALL LABOR, EQUIPMENT, AND MATERIALS TO INSTALL THE NEW JOINT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE APPROPRIATE JOINT ITEM.
- 9. MORTAR LEVELING COURSE SHALL CONFORM TO MATERIAL SPECIFICATION 701-09 AND SHALL BE INCLUDED IN THE PRICE BID FOR THE APPROPRIATE JOINT ITEM.
- 10. THE DEMENSIONS OF THE REMOVAL AREA LANGER THE 152×10 PLATES ARE SHOWN TO ALLOW SPACE FOR THE PLATES TO REST FREELY. IF THERE IS ALREADY ADEQUATE SPACE, NO CONCRETE REMOVAL OR REPLACEMENT IS REQUIRED IN
- 11. 16 JULY ASTM A32SU ANCHOR BOLT TO BE DRILLED AND GROUTED IN PLACE IN ACCORDANCE WITH THE REGUMENENTS OF SUB-SECTION 586-3.02. GROUTING MATERIALS SHALL BE IN ACCORDANCE WITH MATERIALS SUB-SECTION 701-07 ANCHORING MATERIALS-CLEMICALLY CIRING. HOLES TO BE CRILLED TO THE DIAMETER AND DEPTH RECOMMENDED BY THE MANUFACTURER OF THE GROUTING MATERIAL CHIN. DEPTH OF 150 JULY THE COST OF THE ANCHORS, INCLUDING DRILLING AND GROUTING, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE APPROPRIATE JOINT SYSTEM ITEM.
- 12. IT IS DESIRABLE TO HAVE THE ARMORED JOINT WITH ITS COMPRESSION SEAL ASSEMBLED IN THE SHOP AND DELIVERED TO THE JOB SITE ALL SET FOR INSTALLATION IN ITS PREFORMED RECESS IN THE STRUCTURAL SLAB. IN CASES WHERE THE ARMORED JOINT CANNOT BE ASSEMBLED IN THE SHOP, DUE TO ITS EXCESSIVE LENGTH CAUSING SHIPPING PROBLEMS. THE JOINT SHALL BE SEALED WITH THE COMPRESSION SEAL BEFORE THE STRUCTURE IS OPENED TO TRAFFIC INCLUDING CONSTRUCTION TRAFFIC, AND REFORE DIS CONTINUING OPERATIONS WHEN WORK IS SUSPENDED DURING THE WINTER.

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS DATE SIGNATURE INTERSTATE 481

COMPRESSION SEAL JOINT DETAIL



STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION

FILENAME 10/02

ITEM 555.09M - STRUCT. CONCRETE, CLASS "HP" (CM)
ITEM 555.0202M - EPOXY COATED BAR REHAF. FOR STRUCT. (Kg)
ITEM 567.31M - MOD. ARMORED JOINT SYSTEM W/ COAP. SEAL TYPE A1 (m)
ITEM 567.35M - MOD. ARMORED JOINT SYSTEM W/ COAP. SEAL TYPE A2 (m)
ITEM 567.35M - MOD. ARMORED JOINT SYSTEM W/ COAP. SEAL TYPE A5 (m)
ITEM 567.36M - MOD. ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A6 (m)
ITEM 5857.46M - ELASTOMARTIC CONC. FOR BRIDGE JT. SYSTEMS 640
ITEM 586.01M - DRILL & GROUT REINF. BARS (mm)

Maximum Skew Limiter Fixed End - No Limit Exp. End - 45° A2 thru A6

76

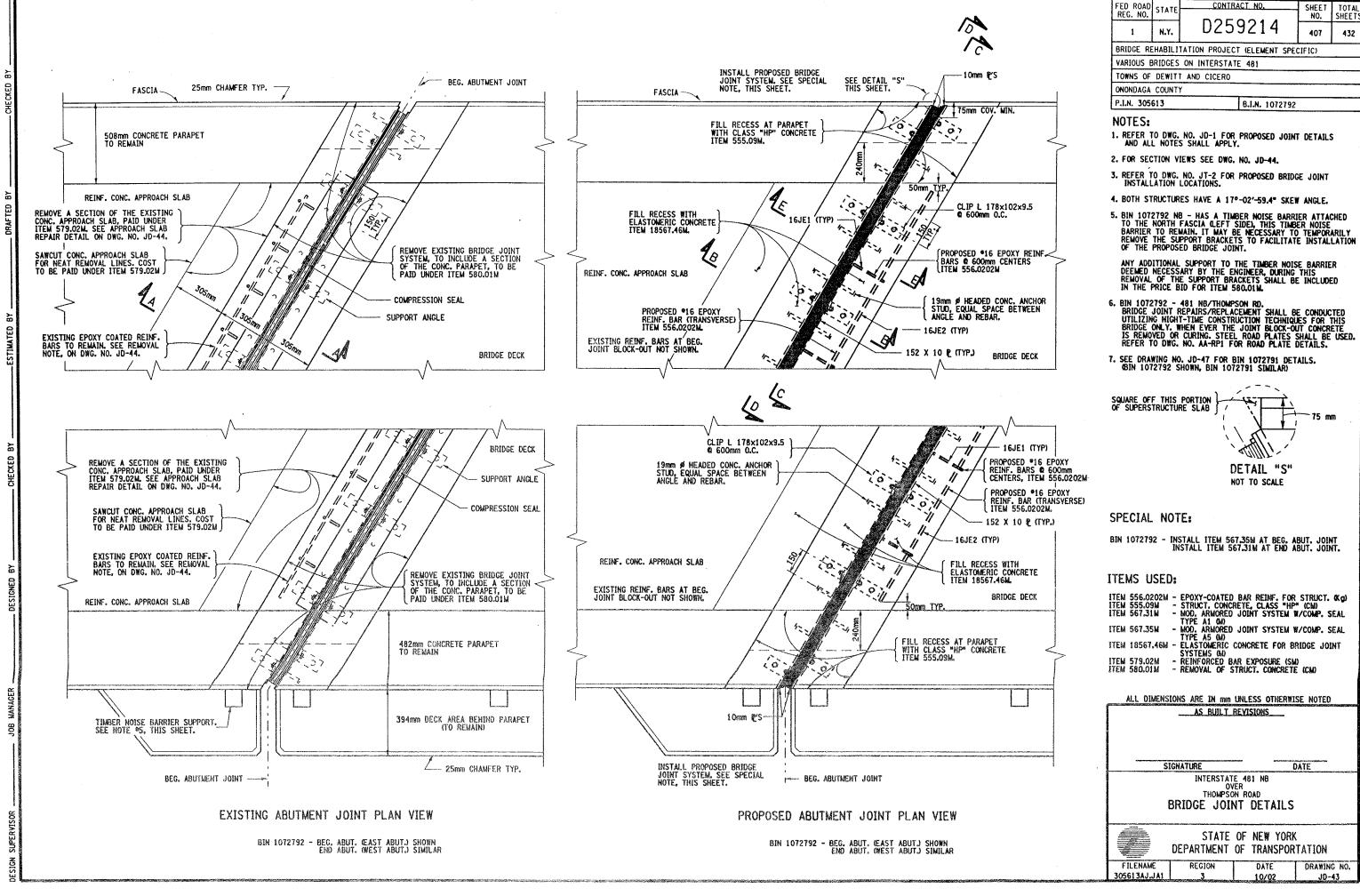
CONTINUOUS PREMETTING REQUIREMENTS PROJECT PROPOSAL).
CONTRACTOR MIST EMSIRE PROPER CONSTRUCTION PRACTICES
ARE FOLLOWED WHEN USING THIS GROUT. THE USE OF EPOXY
POLYSULFIDE GROUT SHALL BE AT NO ADDITIONAL COST TO
THE STATE.

4.8 52 A3 | Exp. over 10 m to 23 m

.44 Exp. over 23 m to 27 m

A5 | Exp. over 27 m to 38 m

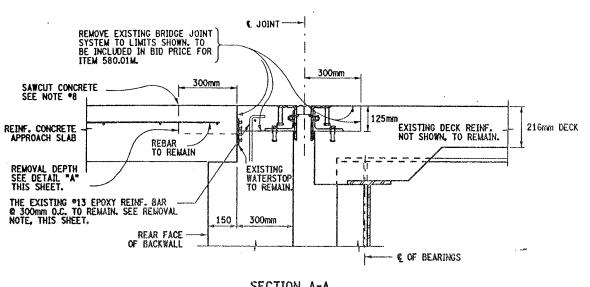
A6 Exp. over 38 m to 46 m



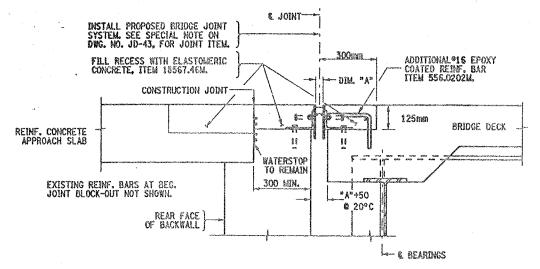
CONTRACT NO.

432

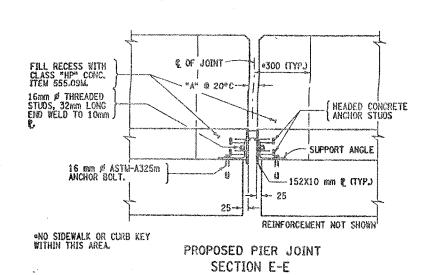
TOTAL



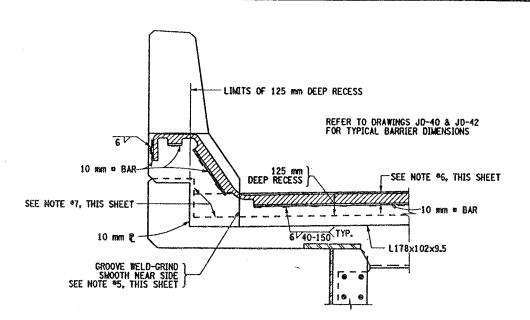
SECTION A-A EXISTING ABUTMENT JOINT NOT TO SCALE



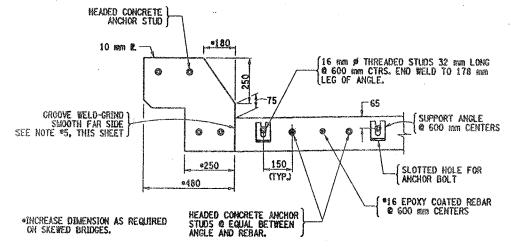
PROPOSED ABUTMENT JOINT SECTION B-B NOT TO SCALE



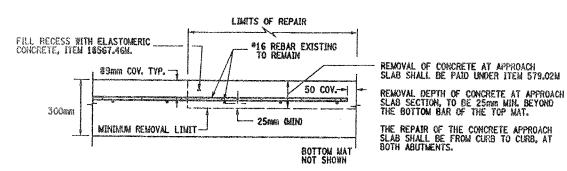
NOT TO SCALE



PROPOSED ABUTMENT JOINT SECTION C-C (CONCRETE TRAFFIC BARRIER) REFER TO DWG. NO. JD-40 FOR OPPOSITE FASCIA DETAIL) NOT TO SCALE



PROPOSED ABUTMENT JOINT SECTION D-D (CONCRETE TRAFFIC BARRIER) (ONLY THE STEEL SHOWN)



APPROACH SLAB REPAIR DETAIL "A" NOT TO SCALE

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	408	432
BRIDGE RE	HABILI	TATION PROJECT (ELEMENT SP	ECIFIC)	L
VARIOUS E	RIDGES	ON INTERSTATE 481		***
TOWNS OF	DEWITT	T AND CICERO		
ONONDAGA	COUNT	1		
P.I.N. 305	513	B.I.N. 107279	2	

REMOVAL NOTE:

EXISTING EPOXY COATED REINF. BARS ENCOUNTERED AT THE JOINT BLOCK-OUTS, SHALL REMAIN, CARE SHALL BE TAKEN DURING REMOVAL OPERATIONS, NOT TO DAMAGE THE REINFORCEMENT BARS.

PRIOR TO PLACEMENT OF NEW CONCRETE THE EXISTING EPOXY BARS SHALL BE CLEAMED AND ANY FIELD REPAIRS DEEMED NECESSARY BY THE ENGINEER, BE MADE AS PER SECTION 556-3.02(C) OF STANDARD SPECIFICATIONS, TO BE INCLUDED IN PRICE BID FOR

NOTES:

- 1. ACTUAL BRIDGE JOINT BLOCK-OUT DIMENSIONS MAY VARY. REMOVAL LIMITS SHALL BE TO EXISTING BLOCK-OUT LOCATIONS, AOBE.
- 2. EXISTING WATERSTOPS SHALL REMAIN.
- 3. FOR CALCULATION OF "A" DIMENSION REFER TO DWG. NO. JD-1.
- 4. REFER TO DWG. WO. JD-43 FOR PROPOSED PARTIAL PLAN VIEWS.
- 5. ALL WELDS SHALL BE GROUND SHOOTH TO THE SATISFACTION OF THE ENGINEER, ON SEAL CONTACT SIDE OF EDGE BEAM.
- 6. THIS DEPTH SHALL BE INDICATED ON THE SHOP DRAWINGS AND SHALL BE SUCH THAT WHEN THE SEAL IS COMPRESSED TO 50% OF ITS MOMINAL WIDTH, THE TOP OF THE SEAL SHALL BE NOT LESS THAN 6 mm NOR MORE THAN 19 mm BELOW THE TOP OF RADDWAY
- 7. RECESSES RECEIVING ITEM 555.09M, AFTER SURFACE PREPARATION, THOROUGHLY MET THE CONCRETE SURFACES AND ALL PORCUS SURFACES TO BE IN CONTACT WITH NEW CONCRETE FOR 12 HOURS, MOTE, THE USE OF MATERIAL SPECIF. 705-22 PORTLAND CEMENT MORTAR BONDING GROUT HAS BEEN ELIMINATED, PROJECT PROPOSAL).
- 8. SAWCUT CONCRETE APPROACH SLAB TO PRODUCE NEAT REMOVAL LINES, COST BE TO INCLUDED IN PRICE BID FOR ITEM 579.02M.
- 9. THE CONCRETE REMOVAL AT THE APPROACH SLAB SHALL CONFORM TO STANDARD SPECIF. 579-3.02, TO BE PAID UNDER ITEM 579.02M. LAT APPROACH SLABS ONLY)

ITEMS USED:

305613AJ.JA1

- STRUCT. CONCRETE, CLASS "HP" (CM)
1 - EPOXY-COATED BAR REINF, FOR STRUCT. (Kg)
1 - ELASTOMERIC CONCRETE FOR BRIDGE JOINT
SYSTEMS (M)
- REINFORCED BAR EXPOSURE (SM)
- REMOVAL OF STRUCT. CONCRETE (CM) ITEM 555.09M ITEM 556.0202M ITEM 18567.46M

ITEM 579.02M ITEM 580.01M

ALL DIMENSIONS ARE IN THE UNLESS OTHERWISE HOTED

AS BUILT REVISIONS SIGNATURE DATE INTERSTATE 481 NB THOMPSON ROAD BRIDGE JOINT DETAILS STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION FILENAME DATE DRAWING NO.

JD-44

Asbestos Sampling Survey

Location:

BIN 1072792 Interstate Route I-481 North Bound over Thompson Road

Prepared for:

New York State Department of Transportation

PIN 3056.13.111

LaBella Project No. 201001

August 2001

Table of Contents

	I	Page
I.	Project Summary	1
II.	Site Description	1
III.	Inspection Procedures	1
IV.	Results	2
Certifi	ication	2

Figures and Table

I. Project Summary

In accordance with conditions of Term Agreement D012606, LaBella Associates, P.C. conducted an asbestos sampling survey of the Interstate Route I-481 north bound bridge over Thompson Road. Based on laboratory analyses of bulk samples collected, no asbestos-containing materials were identified.

II. Site Description

The Site is located in Onondaga County, New York. For the purpose of this report, the Site consists of the Interstate Route I-481 north bound bridge over Thompson Road. (See attached FIGURE 1 - Site Location Map).

III. Inspection Procedures

The following procedures were used to obtain the data for this Report:

- A. A review of record drawings supplied by Region 3 personnel and a visual inspection of the subject structure were conducted to identify potential visible/accessible sources of asbestos-containing materials. Observations and notes were made to provide a description of the structure, and an estimate of the approximate amount, length, or area of ACM present.
- B. Physical or operational constraints, which might affect the removal of the ACM, were identified and reported.
- C. Bulk samples of suspected ACM were collected during the site inspection of the subject structure. Samples were taken from each homogeneous area that may contain ACM.
- D. Samples were submitted for analysis. Preliminary PLM analyses of NOB materials were performed by LaBella Laboratories, a NYSDOH approved laboratory, to determine the presence and percentage of asbestos in each sample. TEM analyses of NOB materials, if necessary, were performed by AMA Analytical, Inc.
- E. Lab results were used to determine the approximate location, type, and amount of the verified ACM.
- F. A drawing of the structure at the Site was created, in order to show sample locations and the approximate locations and amounts of confirmed ACM observed in accessible locations.

Only accessible areas were inspected. Inaccessible areas, such as areas within the bridge or the approaches to the bridge were not included in this inspection. No investigation was conducted by LaBella Associates to determine the presence of underground utilities on or in the immediate vicinity of the Site. Actual sample locations are shown in the attached FIGURE 2. Results of bulk sample analyses are tabulated in the attached TABLE.

IV. Results

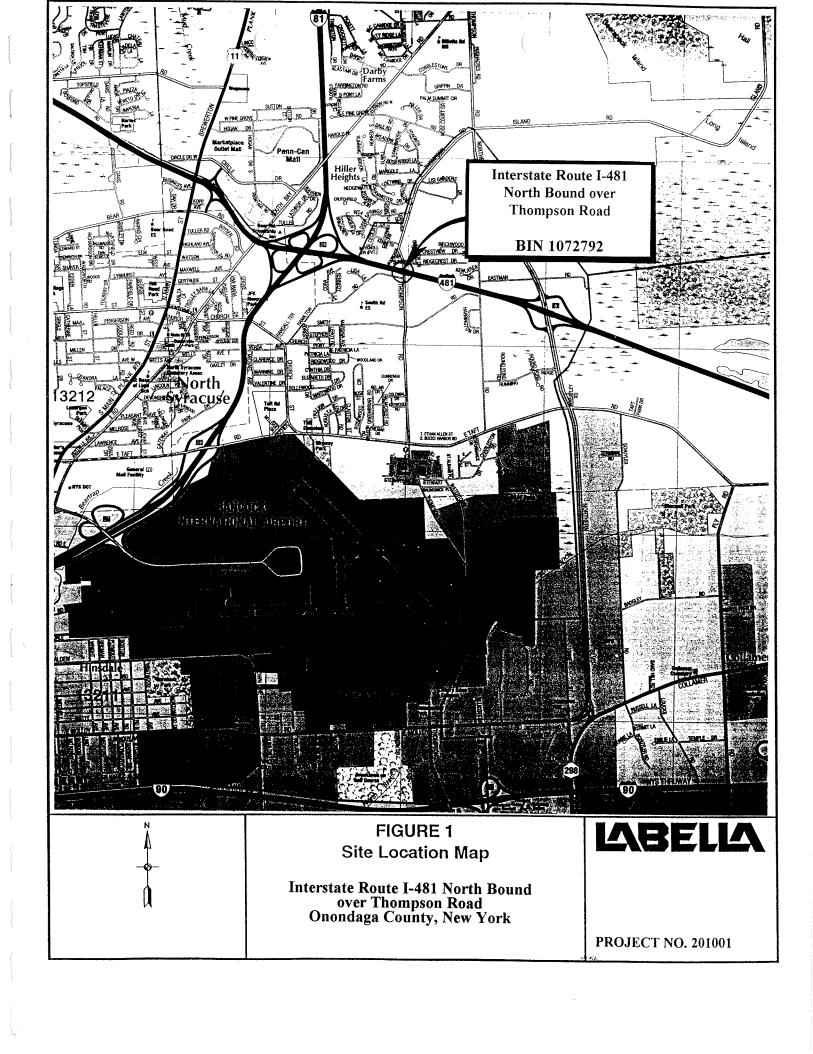
BIN 1072792 Interstate Route I-481 North Bound over Thompson Road

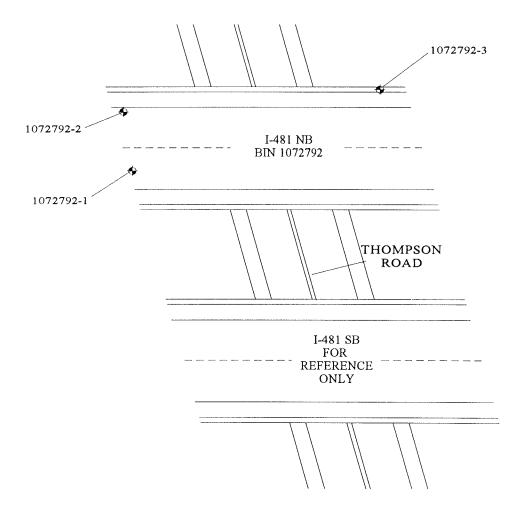
Based on laboratory analyses of bulk samples collected, no asbestos-containing materials were identified.

Certification

LaBella Associates, P.C. certifies the accuracy of this report, to the best of our knowledge, based on the information collected as described in the Inspection Procedures Section of this investigation.

Figures & Table





NOTE: NO ASBESTOS-CONTAINING MATERIALS IDENTIFIED.

LEGEND

♦ 1072792-1 SAMPLE LOCATION

\	PROJECT TITLE: ASBESTOS SAMPLING SURVEY 19 BRIDGES ALONG INTERSTATE I-481	PROJECT NO. 201001
	ONONDAGA COUNTY, NEW YORK	PIN 3056.13.111
NORTH	FIGURE TITLE: FIGURE 2 BIN 1072792 I-481 NB OVER THOMPSON ROAD	NOT TO SCALE
	SAMPLE LOCATIONS & CONFIRMED ACM	DATE: AUGUST, 2001

Bulk Sample Results Table

Asbestos Sampling Survey
BIN 1072792
Interstate Route I-481 North Bound
over Thompson Road
Onondaga County, New York
LaBella Project # 201001
PIN 3056.13.111

Sample #	Sample Location	Type of Material	Results % Asbestos	Amount of Material	Specification Item No.
	East End of Bridge	Gray Caulking			
1072792-1	at Base of Fence	Compound	None Detected	N/A	N/A
	West End of Bridge				
1072792-2	Beneath Bearing	Bearing Pad	None Detected	N/A	N/A
	West End of Bridge	Gray Masonry			
1072792-3	on Backwall	Coating	None Detected	N/A	N/A



BIN 1093561

I-81 (Former I-481) SB over Manlius Center Road (Route 290)

BIN 1093561

Location: I-481 SB over Manlius Center Road (Route 290) NYSDOT D031085 PIN 3501.60 - I-81 Viaduct Replacement or New Urban Arterial City of Syracuse, Onondaga County Bridge Asbestos Assessment Results

Asbestos containing materials have been identified on this bridge.

ITEM	DESCRIPTION	QUANTITY
210.481201	Removal and Disposal of Miscellaneous ACM (BV14) – Sheet	112 SQ FT
	Packing	

The following summarizes the results of the most recent asbestos survey and record plan review.

Watts Inspection Findings (February 2014)

A bridge inspection was completed on 2/25/2014 and the following suspect ACMs were identified and sampled:

- Green girder paint
- Thin beige/grey abutment wall paint on lower part of abutments
- Thick beige/grey paint at top part of abutments
- Bearing pad
- Compressed asbestos sheet packing

Laboratory analysis indicated that the compressed asbestos sheet packing sampled by Watts was confirmed positive for asbestos.

Review of Bridge Record Plans

Record plans (D259214) were reviewed in support of the field survey. There were no suspect ACMs identified.

Previous Survey Results

A previous asbestos survey competed by LaBella in 1999 was reviewed in support of this project. The following materials were identified for analysis.

- Green bridge paint
- Sheet packing
- Grey masonry coating
- Bearing pad

The sheet packing was identified to be asbestos containing.



490 Rowley Road, Depew, NY 14043

Phone/Fax: (716) 651-0030 / (716) 651-0394

buffalolab@emsl.com http://www.EMSL.com

EMSL Order: 141400853 CustomerID:

WATT50A

CustomerPO: ProjectID:

Attn: Scott Matthews **Watts Architecture & Engineering** 2610 Salina Street Syracuse, NY 13205

(315) 443-8611 Phone: Fax: (315) 443-8605 Received: 03/03/14 10:00 AM

Analysis Date: 3/7/2014 Collected: 2/25/2014

Project: 13092 - I81 Viaduct Replacement or New Urban Renewal Bin 1093561 - 481 SB Over Manlius Center Rd

Test Report: Asbestos Analysis of Bulk Material

		Analyzed		Non A	Asbestos	
Test	t	Date	Color	Fibrous	Non-Fibrous	Asbestos
Sample ID	1093561-1 141400853-0001		Description Homogeneity	green girder paint Homogeneous		
PLM NYS 19	98.1 Friable					Not Analyzed
PLM NYS 1	98.6 VCM					Not Analyzed
PLM NYS 1	198.6 NOB	3/6/2014	Green			Inconclusive: None Detected
TEM NYS 1	198.4 NOB	3/7/2014	Green			None Detected
Sample ID	1093561-2 141400853-0002		Description Homogeneity	green girder paint Homogeneous		
PLM NYS 19	98.1 Friable					Not Analyzed
PLM NYS 1	98.6 VCM					Not Analyzed
PLM NYS 1	198.6 NOB	3/6/2014	Green			Inconclusive: None Detected
TEM NYS 1	198.4 NOB	3/7/2014	Green			None Detected
Sample ID	1093561-3 141400853-0003		Description Homogeneity	green girder paint Homogeneous		
PLM NYS 19	98.1 Friable					Not Analyzed
PLM NYS 1	98.6 VCM					Not Analyzed
PLM NYS 1	198.6 NOB	3/6/2014	Green			Inconclusive: None Detected
TEM NYS 1	198.4 NOB	3/7/2014	Green			None Detected
Sample ID	1093561-4 141400853-0004		Description Homogeneity	beige/grey abutment wall p. Homogeneous	aint thin coat	
PLM NYS 19	98.1 Friable					Not Analyzed
PLM NYS 1	98.6 VCM					Not Analyzed
PLM NYS 1	198.6 NOB	3/6/2014	Gray			Inconclusive: None Detected
TEM NYS 1	198.4 NOB	3/7/2014	Gray			None Detected
Sample ID	1093561-5 141400853-0005		Description Homogeneity	beige/grey abutment wall portion of the Homogeneous	aint thin coat	
PLM NYS 19	98.1 Friable					Not Analyzed
PLM NYS 1	98.6 VCM					Not Analyzed
PLM NYS 1	198.6 NOB	3/6/2014	Gray			Inconclusive: None Detected
TEM NYS 1	198.4 NOB	3/7/2014	Gray			None Detected



490 Rowley Road, Depew, NY 14043

Phone/Fax: (716) 651-0030 / (716) 651-0394

http://www.EMSL.com buffalolab@emsl.com EMSL Order: CustomerID: CustomerPO:

ProjectID:

141400853

WATT50A

Test Report: Asbestos Analysis of Bulk Material

Non Asbestos

Test				NON ASDESTOS	
1 621	t		Color	Fibrous Non-Fibrous	Asbestos
Sample ID	1093561-6 141400853-0006		Description Homogeneity	beige/grey abutment wall paint thin coat Homogeneous	
PLM NYS 19	98.1 Friable				Not Analyzed
PLM NYS 1	98.6 VCM				Not Analyzed
PLM NYS 1	98.6 NOB	3/6/2014	Gray		Inconclusive: None Detected
TEM NYS 1	98.4 NOB	3/7/2014	Gray		None Detected
Sample ID	1093561-7 141400853-0007		Description Homogeneity	beige/grey paint at top of abutment thick coat Homogeneous	
PLM NYS 19	98.1 Friable				Not Analyzed
PLM NYS 1	98.6 VCM				Not Analyzed
PLM NYS 1	98.6 NOB	3/6/2014	Gray		Inconclusive: None Detected
TEM NYS 1	98.4 NOB	3/7/2014	Gray		None Detected
Sample ID	1093561-8 141400853-0008		Description Homogeneity	beige/grey paint at top of abutment thick coat Homogeneous	
PLM NYS 19	98.1 Friable				Not Analyzed
PLM NYS 1	98.6 VCM				Not Analyzed
PLM NYS 1	98.6 NOB	3/6/2014	Gray		Inconclusive: None Detected
TEM NYS 1	98.4 NOB	3/7/2014	Gray		None Detected
Sample ID	1093561-9 141400853-0009		Description Homogeneity	beige/grey paint at top of abutment thick coat Homogeneous	
PLM NYS 19					
	98.1 Friable				Not Analyzed
PLM NYS 1					Not Analyzed Not Analyzed
	98.6 VCM	3/6/2014	Gray		<u> </u>
PLM NYS 1	98.6 VCM 98.6 NOB	3/6/2014 3/7/2014	Gray Gray		Not Analyzed
PLM NYS 19 PLM NYS 1 TEM NYS 1	98.6 VCM 98.6 NOB		*	bearing pad Heterogeneous	Not Analyzed Inconclusive: None Detected
PLM NYS 19 PLM NYS 1 TEM NYS 1 Sample ID	98.6 VCM 98.6 NOB 198.4 NOB 1093561-10 141400853-0010		Gray Description		Not Analyzed Inconclusive: None Detected
PLM NYS 19 PLM NYS 1 TEM NYS 1 Sample ID	98.6 VCM 98.6 NOB 98.4 NOB 1093561-10 141400853-0010 98.1 Friable		Gray Description		Not Analyzed Inconclusive: None Detected None Detected
PLM NYS 19 PLM NYS 1 TEM NYS 1 Sample ID PLM NYS 19	98.6 VCM 98.6 NOB 98.4 NOB 1093561-10 141400853-0010 98.1 Friable 98.6 VCM		Gray Description		Not Analyzed Inconclusive: None Detected None Detected Not Analyzed
PLM NYS 19 PLM NYS 1 TEM NYS 1 Sample ID PLM NYS 19 PLM NYS 19	98.6 VCM 98.6 NOB 98.4 NOB 1093561-10 141400853-0010 98.1 Friable 98.6 VCM 98.6 NOB	3/7/2014	Gray Description Homogeneity		Not Analyzed Inconclusive: None Detected None Detected Not Analyzed Not Analyzed
PLM NYS 19 PLM NYS 1 Sample ID PLM NYS 19 PLM NYS 19 PLM NYS 11 TEM NYS 1	98.6 VCM 98.6 NOB 98.4 NOB 1093561-10 141400853-0010 98.1 Friable 98.6 VCM 98.6 NOB	3/7/2014	Gray Description Homogeneity Brown		Not Analyzed Inconclusive: None Detected None Detected Not Analyzed Not Analyzed Inconclusive: None Detected
PLM NYS 19 PLM NYS 1 Sample ID PLM NYS 19 PLM NYS 19 PLM NYS 1 TEM NYS 1 TEM NYS 1	98.6 VCM 98.6 NOB 98.4 NOB 1093561-10 141400853-0010 98.1 Friable 98.6 VCM 98.6 NOB 1093561-11 141400853-0011	3/7/2014	Gray Description Homogeneity Brown Brown Description	Heterogeneous bearing pad	Not Analyzed Inconclusive: None Detected None Detected Not Analyzed Not Analyzed Inconclusive: None Detected
PLM NYS 19 PLM NYS 1 TEM NYS 1 Sample ID PLM NYS 19 PLM NYS 19 PLM NYS 19	98.6 VCM 98.6 NOB 1093561-10 141400853-0010 98.1 Friable 98.6 VCM 98.6 NOB 1093561-11 141400853-0011 98.1 Friable	3/7/2014	Gray Description Homogeneity Brown Brown Description	Heterogeneous bearing pad	Not Analyzed Inconclusive: None Detected None Detected Not Analyzed Not Analyzed Inconclusive: None Detected None Detected
PLM NYS 19 PLM NYS 19 Sample ID PLM NYS 19 PLM NYS 19 PLM NYS 1 TEM NYS 1 Sample ID	98.6 VCM 98.6 NOB 98.4 NOB 1093561-10 141400853-0010 98.1 Friable 98.6 VCM 98.6 NOB 1093561-11 141400853-0011 98.1 Friable 98.6 VCM	3/7/2014	Gray Description Homogeneity Brown Brown Description	Heterogeneous bearing pad	Not Analyzed Inconclusive: None Detected None Detected Not Analyzed Not Analyzed Inconclusive: None Detected None Detected None Detected



490 Rowley Road, Depew, NY 14043

Phone/Fax: (716) 651-0030 / (716) 651-0394

http://www.EMSL.com buffalolab@emsl.com EMSL Order: CustomerID: CustomerPO:

ProjectID:

141400853

WATT50A

Test Report: Asbestos Analysis of Bulk Material

Non Asbestos

Test			Color	Fibrous	Non-Fibrous	Asbestos
Sample ID	1093561-12		Description	bearing pad		7.0300.00
	141400853-0012		Homogeneity	Heterogeneous		
PLM NYS 19	8.1 Friable					Not Analyzed
PLM NYS 19	98.6 VCM					Not Analyzed
PLM NYS 1	98.6 NOB	3/6/2014	Brown			Inconclusive: None Detected
TEM NYS 1	98.4 NOB	3/7/2014	Brown			None Detected
Sample ID	1093561-13		Description	sheet packing		
	141400853-0013		Homogeneity	Homogeneous		
PLM NYS 19	8.1 Friable					Not Analyzed
PLM NYS 19	98.6 VCM					Not Analyzed
PLM NYS 1	98.6 NOB	3/6/2014	Gray			11.8% Chrysotile
						11.8% Total
TEM NYS 1	98.4 NOB	3/7/2014				Not Analyzed
Sample ID	1093561-14		Description	sheet packing		
	141400853-0014		Homogeneity	Homogeneous		
PLM NYS 19	8.1 Friable					Not Analyzed
PLM NYS 19	98.6 VCM					Not Analyzed
PLM NYS 1	98.6 NOB	3/6/2014	Gray			11.8% Chrysotile
						11.8% Total
TEM NYS 1	98.4 NOB	3/7/2014				Not Analyzed
Sample ID	1093561-15		Description	sheet packing		
	141400853-0015		Homogeneity	Homogeneous		
PLM NYS 19	8.1 Friable					Not Analyzed
PLM NYS 19	98.6 VCM					Not Analyzed
PLM NYS 1	98.6 NOB	3/6/2014	Gray			8.8% Chrysotile
						8.8% Total
TEM NYS 1	98.4 NOB	3/7/2014				Not Analyzed



490 Rowley Road, Depew, NY 14043

Phone/Fax: (716) 651-0030 / (716) 651-0394

http://www.EMSL.com buffalolab@emsl.com

EMSL Order: CustomerID: 141400853 WATT50A

CustomerPO:

ProjectID:

Test Report: Asbestos Analysis of Bulk Material

Non Asbestos

Test	Color	Fibrous	Non-Fibrous	Asbestos
Analyst(s)				
Rhonda McGee			Rhon	la Mc Lee

Rhonda McGee, Laboratory Manager or other approved signatory

NOB = Non Friable Organically Bound N/A = Not Applicable VCM = Vermiculite Containing Material

-In New York State, TEM is currently the only method that can be used to determine if NOB materials can be considered or treated as non-asbestos containing. All samples examined for the presence of vermiculite when analyzed via NYS 198.1.

-NYS Guidelines for Vermiculite containing samples are available at http://www.wadsworth.org/labcert/elapcert/forms/VermiculiteInterimGuidance_Rev070913.pdf
EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples were received in good condition unless otherwise noted.

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. This report may contain data that is not covered by the NVLAP accreditation.

Samples analyzed by EMSL Analytical, Inc. Depew, NY NYS ELAP 11606

14	14008	53

Date:

WATTS ARCH	HITECTURE & ENGINEERING
ASBESTOS BULK	SAMPLE CHAIN-OF-CUSTODY

TO SEE PLO	Page: of
ATTS ARCHITECTURE & ENGINEERING	Date: 2 · 25 - 14
STOS BULK SAMPLE CHAIN-OF-CUSTODY	Watts Project No.: 13092

	ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY	Watts Project No.: 13092	2
			48 Hr.
Client:	Parsons Engineering I-81 Viaduct Replacement or New Urban Renewal	Turnarouna Requestea:	72 Hr.
Project:		Andlysis Requested.	X 5 Day
Building	Location: BIN 1093561 (481 over Mantes Conter Ray)	PLM X TEM X 12 Hr	

12 Hr. X PLM X TEM at (315) 443-8611 Scott Matthews Contact:

smatthews@watts-ae.com Scott Matthews Email Preliminary Results to: Mail Report to: Watts Architecture & Engineering Accounts Payable Mail Invoice to:

2610 S Salina Street, Syracuse, NY 13210 *3/3* Watts Architecture & Engineering 95 Perry Street, Buffalo, NY 14203

	95 Perry Street, Buffalo, NY 14203	2610 S Salina Sfreet, Sylucuse, 131	Laboratory Results
Sample	Material Description	Sample Location	PLM TEM
Number	4	109386+ SW Corner	
093561-1	Green greder paint	SE corner	7
2	્ય વ	North middle	
3	- i cour a habonant wall point (thin cout)	SW Colner	
093561-4	Beige ale a grant w	Se come	
-5	tt	North middle	
-6		SW coins	
-7	Becga/ gray paint at top of abother (thick Cout)	SE come	
- 9		N. Middle	
- 9		SW com	
-10	Bealing pad	SE COINE	
-11		N. Middle	
.13	11	Received By:	Date: FX

		1 wells	Date:	2-25-14	Received By:	N.	
Sampled By:	JCOII Wanner	I IVIDIVO	Date:	7-29-14	 _Received By:		
Polinguished B	Scott Matthews to FedE	x/ J. V	_ Dale.	200	-		

Scott Matthews to FedEx Relinquished By: Comments:

141400853

WATTS ARCHITECTURE & ENGINEERING ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY

	Date: 2-25-14		
Watts Project No.:			
Requested:	3 Hr.	48 Hr.	
Requested:	6 Hr	72 Hr	

Building / Location: Contact:

Mail Invoice to:

Client:

Project:

BIN Scott Matthews

Parsons Engineering

(481 SB over Manlius Center Rd 1093561 at (315) 443-8611

Analysis Requested: 12 Hr. PLM X TEM 5 Day 24 Hr. 6-10 Day

smatthews@watts-ae.com **Email Preliminary Results to:** Accounts Payable

I-81 Viaduct Replacement or New Urban Renewal

Scott Matthews

Turnaround Requested:

Mail Report to:

Watts Architecture & Engineering

Watts Architecture & Engineering

95 Perry Street, Buffalo, NY 14203

2610 S Salina Street, Syracuse, NY 13210 a

Sample	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	S	Laborator	y Results
Number	Material Description	Sample Location	PLM	TEM
1093561 - 13	Sheet packing	SW Corner	211 2	
14	11 4	SE corner		
15	CC U	NE corner North-middle		

Samp	led	By:	
------	-----	-----	--

Scott Matthews Scott Matthews to FedEx

Date: 2-29-14

Received By:

Received By:

Date:

Relinquished By: Comments:

Date:



BIN 1093561 Inspection Photos

I-81 (Former I-481) SB over Manlius Center Road (Route 290)

Photo 1



Photo 2



Photo 3



Photo 4



Photo 5



Photo 6



PROJECT LOCATION

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
OFFICE OF ENGINEERING

BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC) VARIOUS BRIDGES ON INTERSTATE 481 TOWNS OF DEWITT AND CICERO

VOLUME 1 OF 2

432 SHEETS

ONONDAGA

COUNTY

CONTRACT D259214

1093561

F.A. PROJECT

STANDARD SHEETS

M203-4, M203-5, M203-6R1, M603-1 M606-32, M606-33, M606-34, M619-3R1, M619-4, M619-5 M685-1, M685-2R1, M685-3R1 M685-4R1, M685-5R1, M403-1, M203-4, M203-5, M203-6R1, M603-1

Record plans were reviewed on 12-30-13 by GA. No suspect materials were identified.

ALL WORK CONTEMPLATED UNDER THIS CONTRACT IS TO BE COVERED BY AND IN CONFORMITY WITH THE STANDARD SPECIFICATIONS OMETRIC UNITS) OF JANUARY 2, 2002, AS AMENDED BY ADDENDA NOS. 1 AND 2, EXCEPT AS MODIFIED ON THESE PLANS AND IN THE ITEMIZED PROPOSAL.

CONTRACTOR'S NAME AWARD DATE COMPLETION DATE_ FINAL ACCEPTANCE DATE REGIONAL DIRECTOR ENGINEER IN CHARGE FINAL COST TOTAL FISCAL SHARE COST(S)

THIS IS A BRIDGE REHABILITATION PROJECT ON VARIOUS BRIDGES ON INTERSTATE 481, LOCATED IN THE TOWNS OF CICERO AND DEWITT IN ONONDAGA COUNTY. THIS WORK CONSISTS OF BRIDGE JOINTS, BEARINGS, BRIDGE RAIL AND CONCRETE REPAIR OF SUBSTRUCTURES. THERE ARE 28 BRIDGES IN THE PROJECT BEGINNING AT REFERENCE MARKER 4811-3301-1000 SOUTH OF THE CITY OF SYRACUSE AND ENDING AT REFERENCE MARKER 4811-3301-2143.

STATE OF NEW YORK REGIONS & LOCATIONS

OF REGIONAL OFFICES OF THE STATE DEPARTMENT

OF TRANSPORTATION

1069131 1069132 1069141	1072791 1072792 TOTMAN ROAD TOTMAN ROAD 1072781 9 1072782
1002132	1072581 1072582 NOT TO SCALE

BRIDGE REHAE	B. PROJ	- ELEMENT	SPECIFIC
VARIOUS BR	IDGES ON	INTERST	ATE 481
TOWNS	OF DEWI	TT AND CI	CERO
Oi	NONDAGA	COUNTY	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
FED. ROAD REG. NO.	STATE	SHEET NO.	TOTAL SHEETS
. 1	N.Y.	1	432

FEDERAL AID
PROJECT NO.
CAPITAL PROJECT
IDENTIFICATION NO. 3056.13 INDEX ON SHEET NO. 5 & 6 "

PROJECT LOCATION

DATE REGIONAL TRANSPORTATION MAINTENANCE ENGINEER DATE

REGIONAL TRAFFIC ENGINEER

RECOMMENDED BY

SHEET	DESCRIPTION	DRAWING NO
NO.		
234	TITLE SHEET ESTIMATE OF QUANTITIES	COVER
2,3,4 5.6	INDEX	IDX-1 - IDX-2
3,6	INUEA	10% 1 10% 2
7-155	MAINTENANCE AND PROTECTION OF TRAFFIC	MPT-1 - MPT-14
156	CROSSOVER TYPICAL SECTION	CTS-1
57-160	CROSSOVER SURVEY CONTROL DATA	HC-1 - HC-4
61-166	CROSSOVER PLANS	CPL-1 - CPL-
67-174	CROSSOVER PROFILES	CPR-1 - CPR-
75-177	CROSSOVER MISC. DETAILS	CMO-1 - CMO-
78-179	CROSSOVER MISC. TABLES	CMT-1 - CMT-
80-191	ESTIMATE OF QUANTITIES BY STRUCTURE	QE-1A - QE-4C
192	GENERAL NOTES	GN-1
132	OCHEMAL HOLES	
193	BIN 1002131, I4815B/RT. 5, PLAN AND ELEVATION	GP1-1
194	BIN 1002131, TYPICAL BRIDGE SECTION AND PROFILE	TS1-1
95-197	BIN 1002131, SOUTH ABUTMENT (SB)	AB1-1 - AB1-3
98-199	BIN 1002131, NORTH ABUTMENT (SB), SHEET PILING LAYOUT	AB1-4 - AB1-5
200-201	BIN 1002131 PIER 1 & PIER 2 SB REMOVAL DETAILS	PR1-1 & PR1-
202	BIN 1002131, PEDESTAL REPLACEMENT	PR1-3
203	BIN 1002131, BOLSTER DETAILS	PR1-4
204	BIN 1002131, ANCHOR BOLT LAYOUT (SB)	PR1-5
205	BIN 1002132, I481NB/RT. 5, PLAN AND ELEVATION	GP2-1
206-207	BIN 1002132, TYPICAL BRIDGE SECTION AND PROFILE, APPROACH SECTION	TS2-1 & TS2-2
208-213	BIN 1002132, SOUTH ABUTMENT (NB)	AB2-1 - AB2-6
214-219	BIN 1002132, NORTH ABUTHENT (NB)	AB2-7 - A82-1
220-221	BIN 1002132, PIERS (NB)	PR2-1 & PR2-2
222	BIN 1002132, PEDESTAL REPLACEMENT (NB)	PR2-3
223	BIN 1002132, BOLSTER DETAILS (NB)	PR2-4
224	BIN 1002132, ANCHOR BOLT LAYOUT (NB)	PR2-5
225	BIN 1031711 AND 1031712, I-481/I-81, PLAN AND ELEVATION	GP3-1
226	BIN 1031711 & 1031712, TYPICAL BRIDGE SECTION AND PROFILE	TS3-1
227	BIN 1031711, EAST ABUTMENT (SB) PLAN & ELEVATION	A83-1
228	BIN 1031711, WEST ABUTMENT (SB) PLAN & ELEVATION	AB3-2
229	BIN 1031712, EAST ABUTMENT (NB) PLAN & ELEVATION	AB3-3
230	BIN 1031712, WEST ABUTMENT (NB) PLAN & ELEVATION BIN 1031711 & 1031712, APPROACH SLABS	AB3-4 AS3-1
232	BIN 1064650, KINNE RD/1-481, PLAN, ELEVATION, AND BRIDGE SECTION	GP4-1
233	BIN 1069131 & 1069132, 1-481/QUARRY DRIVEWAY, PLAN AND ELEVATION	GP5-1
234	BIN 1069131 & 1069132, TYPICAL BRIDGE SECTION AND PROFILE AND BRIDGE SECTION	TS5-1
235	BIN 1069131, WEST ABUTMENT (SB) PLAN & ELEVATION	A85-1
236	BIN 1069131, EAST ABUTMENT (SB) PLAN & ELEVATION	AB5-2
237	BIN 1069132, EAST ABUTMENT (NB) PLAN & ELEVATION	A85-3
238-239	BIN 1069141 & 1069142, I-481/NYS + W RAILROAD, GENERAL PLAN AND ELEVATION	GP6-1 - GP6-2
240-241	BIN 1069141 & 1069142, TYPICAL BRIDGE SECTION AND PROFILES	TS6-1 & TS6-2
242	BIN 1069141, WEST ABUTMENT (SB) PLAN & ELEVATION	AB6-1
243	BIN 1069141, EAST ABUTMENT (SB) PLAN & ELEVATION	A86-2
244	BIN 1069142, WEST ABUTMENT (NB) PLAN & ELEVATION	AB6-3
245	BIN 1069142, EAST ABUTHENT (NB) PLAN & ELEVATION	AB6-4

SHEET	DESCRIPTION	DRAWING NO.
NO. 246	BIN 1072530, RAMP TO I-481/I-481, PLAN, ELEVATION AND BRIDGE SECTION	/
247-248	BIN 1072530. EAST ABUTMENT	GP7-1
211 210		AB7-1 - AB7-2
249	BIN 1072571 & BIN 1072572, I-481/ROUTE 298 PLAN AND ELEVATION AND BRIDGE SECTION	GP8-1
250	BIN 1072571 & BIN 1072572, TYPICAL BRIDGE SECTION AND PROFILE	TS8-1
251	BIN 1072571, SOUTH ABUTMENT (SB) PLAN & ELEVATION	AB8-1
252	BIN 1072571, NORTH ABUTMENT (SB) PLAN & ELEVATION	AB8-2
253	BIN 1072572, SOUTH ABUTMENT (NB) PLAN & ELEVATION	A88-3
254	BIN 1072581 & BIN 1072582, I-481/TAFT ROAD, PLAN AND ELEVATION	GP9-1
255	BIN 1072581 & 1072582, TYPICAL BRIDGE SECTION AND PROFILE	TS9-1
256-257	BIN 1072581, SOUTH ABUTMENT AND NORTH ABUTMENT (SB)	AB9-1 & AB9-2
258-259	BIN 1072582, SOUTH ABUTMENT AND NORTH ABUTMENT (NB)	AB9-3 & AB9-4
260	BIN 1072781 & BIN 1072782, I-481/TOTMAN ROAD, PLAN, ELEVATION AND BRIDGE SECTION	GP1 0-1
261	BIN 1072781 & BIN 1072782 TYPICAL BRIDGE SECTION AND PROFILE	TS10-1
262-263	BIN 1072781, EAST ABUTMENT (SB) PLAN & ELEVATION	AB10-1 & AB10-2
264	BIN 1072782, WEST ABUTMENT (NB) PLAN & ELEVATION	AB10-3
265	BIN 1072781, APPROACH SLABS	AS10-1
266	BIN 1072791 & BIN 1072792, I-481/ THOMPSON ROAD, PLAN, ELEVATION AND BRIDGE SECTION	GP11-1
267	BIN 1072791 & BIN 1072792 TYPICAL BRIDGE SECTIONS AND PROFILE	TS11-1
268	BIN 1072791, EAST & WEST ABUTWENTS (SB)	AB11-1
269	BIN 1072791, APPROACH SLAB (SB)	AS11-1
270	BIN 1093510, I-690 RAMP/ I-481SB, PLAN, ELEVATION, AND BRIDGE SECTION	0010.4
271	BIN 1093510, WEST ABUTMENT PLAN & ELEVATION	GP12-1
		AB12-1
272	BIN 1093520, WIN LINE OVER INTERSTATE 481 SB, PLAN, ELEVATION, AND BRIDGE SECTION	GP13-1
273	BIN 1093520, WEST ABUTMENT PLAN & ELEVATION	AB13-1
274	BIN 1093540, I-690 EB/ I-481 NB RAMP, PLAN, ELEVATION, AND BRIDGE SECTION	GP14-1
275	BIN 1093540 TYPICAL BRIDGE SECTION AND PROFILE	TS14-1
276 🤻	BIN 1093540, WEST ABUTMENT	AB14-1
277	BIN 1093550, I-481 NB/WB CONNECTOR, PLAN, ELEVATION, AND BRIDGE SECTION	
278	BIN 1093550, SOUTH ABUTMENT, NB PLAN & ELEVATION	GP15-1
279	BIN 1093550, NORTH ABUTMENT, NB PLAN & ELEVATION	AB15~1 AB15~2
	DIN (ADDEC) A ADDECO I (AL PONTE ADA	
280	BIN 1093561 & 1093562, I-481/ROUTE 290, PLAN, ELEVATION AND BRIDGE SECTION	GP16-1
281	BIN 1093561 & 1093562 TYPICAL BRIDGE SECTION AND PROFILE BIN 1093561. SOUTH ABUTMENT (SB) PLAN & ELEVATION	TS16-1
283	BIN 1093562, SOUTH ABUTMENT (NB) PLAN & ELEVATION	AB16-1
		AB16-?
	8IN 1093571 & BIN 1093572, I-481/CSX RAILROAD YARD, PLAN & ELEVATION	GP17-1 - GP17-4
	BIN 1093571 AND BIN 1093572, TYPICAL BRIDGE SECTION AND PROFILES	TS17-1
	BIN 1093571 AND BIN 1093672, DRAINAGE DETAILS BIN 1093571 AND BIN 1093672, SCUPPER EXTENSIONS	DD17-1 - D017-5
97-314	BIN 1093571, PIERS 1-14, (SB)	0017-6 - 0017-8
	BIN 1093572, SOUTH ABUTMENT (NB)	PR17-15 - PR17-18S
16-329	BIN 1093572, PIERS 1-14 (NB)	AB17-1
	BIN 1093571 AND 1093572, PARAPET REPAIR DETAILS	PR17-1N - PR17-14N PW17-1 & PW17-2
		TABLE OF LATE C

FED ROAD	STATE	CONTRACT NO.		SHEET	TOTAL
REG. NO.				NO.	SHEETS
1	N.Y.	D259214		5	432
BRIDGE RE	HABILI	ATION PROJECT ELEMENT	SPEC	IFIC)	
VARIOUS B	RIDGES	ON INTERSTATE 481			
TOWNS OF	DEWITT	AND CICERO			
ONONDAGA	COUNTY			· · · · · · · · · · · · · · · · · · ·	
P.I.N. 3056	513	B.I.N. ALL	BINS	······	

AS BUILT REVISIONS

SIGNATURE

DATE

INTERSTATE 481
REHABILITATION PROJECT

INDEX



STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

FILENAME 305613AA.L2A

DATE DRAWING NO. 10/02 IDX-1

SHEET	DESCRIPTION	DRAWING N
NO.		
333	BIN 1093671 & 1093672, I-481/KIRKYILLE ROAD, PLAN, ELEVATION AND BRIDGE SECTION	GP18-1
334	BIN 1093671 & BIN 1093672 TYPICAL BRIDGE SECTION AND PROFILE	TS18-1 AB18-1 - AB1
335-336	BIN 1093671, SOUTH ABUTMENT (SB) PLAN, ELEVATION AND SECTIONS	AB18-3
337	BIN 1093671, NORTH ABUTMENT (SB) PLAN & ELEVATION	AB18-4 - AB1
338-339 340	BIN 1093672, SOUTH ABUTMENT (NB) PLAN, ELEVATION AND SECTIONS BIN 1093672, NORTH ABUTMENT (NB) PLAN & ELEVATION	AB18-6
341-342	BIN 1002131, BIN 1002132 & BIN 1093571, MULTIROTATIONAL BEARINGS	BR-1 & BR-
343	BIN 1002131, BEARING RESTORATION DETAILS	BR-3
344	BINS 1069131 & 1069132, BEARING RESTORATION DETAILS	BR-4
345-346	BIN 1069141 & BIN 1069142, BEARING RESTORATION DETAIL	BR-5 & BR-
347	BIN 1072530, BEARING RESTORATION DETAILS	BR-7
348	BIN 1072791 AND BIN 1072792 BEARING RESTORATION DETAILS	BR-8
349	BIN 1093550, BEARING RESTORATION DETAILS	BR-9
350-351	BINS 1093751 & 1093572, BEARING RESTORATION DETAILS	BR-10 & BR
352	BIN 1072781 BEARING RESTORATION DETAILS	BR-12
	RAILING DETAILS	
353-355	BIN 1002131 & BIN 1002132, RAILING DETAILS	RD-1 - RD-3
356-358	BIN 1069141 & BIN 1069142, RAILING DETAILS	RD-4 - RD-6
359-360	RAILING DETAILS	RD-7 - RD-8
	BRIDGE JOINTS	
361-364	BRIDGE JOINT TABLE	JT-1 - JT-4
365	COMPRESSION SEAL JOINT DETAIL (ALL BRIDGES)	JD-1
366-370	BIN 1002131, JOINT DETAILS	JD-2 - JD-6
371-375	BIN 1002132, JOINT DETAILS	JD-7 - JD-1
376-377	BIN 1031711 & BIN 1031712, JOINT DETAILS	JD-12 - JD-
378-383	BIN 1064650, JOINT DETAILS	JD-14 - JD- JD-20 + JD-
384-385	BIN 1069131, JOINT DETAILS	JD-22 + JD-
386-387	BIN 1069132, JOINT DETAILS	JD-24 - JD-
388-392	BIN 1069141 & BIN 1069142	JD-29 + JD-
393-394	BIN 1072530, JOINT DETAILS BIN 1072571, JOINT DETAILS	JD-31 + JD-
395-396 397-398		JD-33 + JD-
	BIN 1072572, JOINT DETAILS BIN 1072581, JOINT DETAILS	JD-35 + JD-
401-402	BIN 1072582, JOINT DETAILS	JD-37 + JD-
403-404	BIN 1072781, JOINT DETAILS	JD-39 + JD-
405-406	BIN 1072782, JOINT DETAILS	JD-41 + JD-
407-408	BIN 1072792, JOINT DETAILS	J0-43 + JD-
409-410	BIN 1093510, JOINT DETAILS	JD-45 + JD-
411	BIN 1072791, BIN 1093520 & BIN 1093540, JOINT DETAILS	JD-47
412-413	BIN 1093550, JOINT DETAILS	JD-48 + JD-
414-416	BIN 1093561 & BIN 1093562, JOINT DETAILS	JD-50 - JD-
417-420	BIN 1093571 & BIN 1093572, JOINT DETAILS	JD-53 - JD-
421-423	BIN 1093671 & BIN 1093672, JOINT DETAILS	01 01 00
		4

SHEET DESCRIPTION	DRAWING NO.
424 VARIOUS BRIDGES - ROAD PLATE DETAIL	AA - RP1
BAR LIST 425-428 ALL BINS (BRIOGE JOINT SYSTEMS)	BL-1 - BL-4
429 BIN 1002131 & 1002132	BL-5
430 BIN 1093571	BL-6
431 STRUCTURAL SLAB OVERLAY & ASPHALT PAVEMENT REPAIR DETAILS	MS-1
432 MISC, TABLE	MT-1
·	I I

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	6	432
BRIDGE RE	HABILIT	ATION PROJECT (ELEMENT SPE	CIFIC)	.
VARIOUS B	RIDGE (ON INTERSTATE 481		
TOWN OF	EWITT	AND CICERO		
ONONDAGA	COUNTY			
P.I.N. 3056	13	B.I.N. VARIOUS		···
				

AS BUILT REVISIONS

SIGNATURE

DATE

INTERSTATE 481
REHABILITATION PROJECT

INDEX



STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

 FILENAME
 REGION
 DATE
 DRAWING NO.

 305613AAL2A
 3
 10/02
 IDX-2

D3.03 M EN D3.07 M SE D3.07 M SE D3.1770 M CI D3.18 M CI D3.19 M CI D3.21 M SE D5203.51 M GI D6.01 M S D6.02 M TI D7.10 M G D7.10 M G D7.10 M S	DESCRIPTION UNCLASSIFIED EXCAVATION & DISPOSAL EMBANKMENT IN PLACE SELECT GRANULAR FILL CLEAN EXISTING PIPE CULVERT CLEANING CLOSED DRAINAGE SYSTEMS CLEAN DRAINAGE STRUCTURES AND MANHOLES SELECT STRUCTURE FILL GRADING, CLEANING AND RESHAPING EXISTING DITCHES STRUCTURE EXCAVATION TRENCH AND CULVERT EXCAVATION GEOTEXTILE BEDOING	CM CM M EA CM M CM	1 093 EST	FINAL	1093 EST.	FINAL	1093 EST.	FINAL	1093 EST	,	1093! EST. 7	FINAL	1093 EST. —		1093 EST.	
D3.03 M EM D3.07 M SE D3.1770 M CI D3.18 M CI D3.19 M CI D3.21 M SE D5203.51 M GI D6.02 M TI D7.10 M G D7.10 M G D7.10 M G D7.10 M G D7.10 M SS	EMBANKMENT IN PLACE SELECT GRANULAR FILL CLEAN EXISTING PIPE CULVERT CLEANING CLOSED DRAINAGE SYSTEMS CLEAN DRAINAGE STRUCTURES AND MANHOLES SELECT STRUCTURE FILL GRADING, CLEANING AND RESHAPING EXISTING DITCHES STRUCTURE EXCAVATION TRENCH AND CULVERT EXCAVATION GEOTEXTILE BEDDING	CM CH M EA CM		FINAL		FINAL		FINAL	_	FINAL	7	FINAL		FINAL		FINA
D3.03 M EM D3.07 M SE D3.1770 M CI D3.18 M CI D3.19 M CI D3.21 M SE D5203.51 M GI D6.02 M TI D7.10 M G D7.10 M G D7.10 M G D7.10 M G D7.10 M SS	EMBANKMENT IN PLACE SELECT GRANULAR FILL CLEAN EXISTING PIPE CULVERT CLEANING CLOSED DRAINAGE SYSTEMS CLEAN DRAINAGE STRUCTURES AND MANHOLES SELECT STRUCTURE FILL GRADING, CLEANING AND RESHAPING EXISTING DITCHES STRUCTURE EXCAVATION TRENCH AND CULVERT EXCAVATION GEOTEXTILE BEDDING	CM CH M EA CM	34						4	Y						•
D3.07 M SE D3.1770 M CI D3.18 M CI D3.18 M CI D3.19 M CI D3.21 M SE D5203.51 M GG D6.01 M S D6.02 M TI D7.10 M G D7.10 M G D7.10 M S SELECT GRANULAR FILL CLEAN EXISTING PIPE CULVERT CLEANING CLOSED DRAINAGE SYSTEMS CLEAN DRAINAGE STRUCTURES AND MANHOLES SELECT STRUCTURE FILL GRADING, CLEANING AND RESHAPING EXISTING DITCHES STRUCTURE EXCAVATION TRENCH AND CULVERT EXCAVATION GEOTEXTILE BEDDING	CM M EA CM M	34						4				<u> </u>	 			
03.1770 M CI 03.18 M CI 03.18 M CI 03.19 M CI 03.21 M SE 5203.51 M GI 06.01 M S 06.02 M TI 07.10 M G 10.5433 M RI 10.9913 M RI 02.128201 M 1 10.2428201 M P 102.258901 M P 102.258901 M P 102.378901 M P 102.378901 M P 103.378911 M P 104.15 M S 105.378911 M P 105.378911 M P 105.378911 M P 105.378911 M P 105.378911 M S 105.378911 M S 105.378911 M S 105.378911 M S 105.378911 M S 105.378911 M S 105.378911 M S 105.378911 M S 105.378911 M S 105.378911 M S 105.378911 M S 105.378911 M S 105.378911 M S 105.378911 M S	CLEAN EXISTING PIPE CULVERT CLEANING CLOSED DRAINAGE SYSTEMS CLEAN DRAINAGE STRUCTURES AND MANHOLES SELECT STRUCTURE FILL GRADING, CLEANING AND RESHAPING EXISTING DITCHES STRUCTURE EXCAVATION TRENCH AND CULVERT EXCAVATION GEOTEXTILE BEDDING	M M EA CM M	34					'	4 1	1)	110					
03.18 M CI 03.19 M CI 03.19 M CI 03.21 M SE 5203.51 M GI 5203.51 M GI 06.02 M TI 07.10 M G 10.5433 M RI 10.9913 M RI 02.128201 M 1: 02.128201 M 1: 02.258901 M P 102.258901 M S 102.378911 M P 102.378901 M S 102.378911 M P 103.30 M S 1	CLEANING CLOSED DRAINAGE SYSTEMS CLEAN DRAINAGE STRUCTURES AND MANHOLES SELECT STRUCTURE FILL GRADING, CLEANING AND RESHAPING EXISTING DITCHES STRUCTURE EXCAVATION TRENCH AND CULVERT EXCAVATION GEOTEXTILE BEDDING	M EA CM M	34							 		++		\vdash		
03.19 M Ct 03.21 M Sc 03.21 M Sc 5203.51 M Gf 06.01 M S 06.02 M Ti 07.10 M G 10.5433 M Ri 10.9913 M Si 02.128201 M 1: 02.128201 M P 102.258911 M P 102.258911 M P 102.378901 M G 102.378911 M P 107.01 M T 109.30 M M 1098520.5014 M S 108520.5014 M S 108520.5014 M S 103.31 M S 108520.5014 M S 103.31 M S 108520.5014 M S 103.31 M S 108520.5014 M S 103.31 M S 108520.5014 M S 103.31 M S 108520.5014 M S 103.31 M S 108520.5014 M S 103.31 M S 103.	CLEAN DRAINAGE STRUCTURES AND MANHOLES SELECT STRUCTURE FILL GRADING, CLEANING AND RESHAPING EXISTING DITCHES STRUCTURE EXCAVATION TRENCH AND CULYERT EXCAVATION GEOTEXTILE BEDOING	EA CM M	34						4		4	+	 -	\longrightarrow		
03.21 M SE 03.21 M GI 05.203.51 M GI 06.01 M S' 06.02 M TI 07.10 M G 10.5433 M RI 10.9913 M SI 02.128201 M II 02.128211 M P 102.258901 M 2 102.258901 M P 102.378901 M GI 102.378901 M TI 102.378911 M TI 103.30 M ST 103.30 M	SELECT STRUCTURE FILL GRADING, CLEANING AND RESHAPING EXISTING DITCHES STRUCTURE EXCAVATION TRENCH AND CULVERT EXCAVATION GEOTEXTILE BEDDING	CM M						 	256	 	269			 		<u> </u>
5203.51 M Gi 5203.51 M Gi 06.01 M S' 06.02 M Ti 07.10 M G 10.5433 M Ri 10.9913 M Ri 04.15 M Si 02.128201 M 1: 02.128211 M P 02.258901 M 2 102.258901 M 3 102.378901 M P 102.378901 M P 102.378901 M T 109.30 M N 109.30 M S	GRADING, CLEANING AND RESHAPING EXISTING DITCHES STRUCTURE EXCAVATION TRENCH AND CULVERT EXCAVATION GEOTEXTILE BEDDING	М							4	\vdash	6		-	\longrightarrow		
06.01 M S 06.02 M TI 07.10 M G 10.5433 M R 10.9913 M R 04.15 M S 02.128201 M 1: 02.258901 M 2 102.258901 M P 102.258901 M P 102.378901 M P 107.01 M T 190.30 M M 108520.5014 M S 552.13 M T	STRUCTURE EXCAVATION TRENCH AND CULVERT EXCAVATION GEOTEXTILE BEDOING		1					-						\vdash		
06.02 M TI 07.10 M G 10.5433 M RI 10.9913 M RI 04.15 M SI 02.128201 M 1: 02.258901 M 2 02.258901 M P 02.258901 M P 02.378901 M T 10.02.378901 M T 10.02.378901 M T 10.02.378901 M S 10.02.378911 M P 10.02.378911 M S 10.02.378911 M S 10.02.378911 M S 10.02.378911 M S 10.02.378911 M S 10.02.378911 M S 10.02.378911 M S 10.02.378911 M S 10.02.378911 M S 10.02.378911 M S 10.02.378911 M S 10.02.378911 M S 10.02.378911 M S 10.02.378911 M S 10.02.378911 M S 10.02.378911 M S 10.02.378911 M S	TRENCH AND CULVERT EXCAVATION	CM							70	1	17					-
CO7.10 M G 10.5433 M RI 10.9913 M RI 004.15 M SI 002.128201 M 1: 002.128211 M P 102.258901 M 2 102.258901 M 3 102.378901 M 3 102.378911 M P 107.01 M T 190.30 M SI 190.30 M SI 190.30 M SI 190.30 M SI 190.30 M SI 190.31 M SI	GEOTEXTILE BEDOING											 		\longrightarrow		-
10.5433 M RI 10.9913 M RI 04.15 M Si 02.128201 M 1: 02.128211 M P 102.258901 M 2 102.258901 M P 102.378901 M T 102.378901 M T 102.378911 M P 107.01 M T 190.30 M S 102.392 M S 102.5014 M S 102.5013 M T		CM							24		22		 	\vdash		
10.9913 M R 04.15 M S 02.128201 M 1: 102.128211 M P 102.258901 M 2 102.258911 M P 102.378901 M 3 102.378911 M P 107.01 M T 190.30 M N 502.92 M S 552.13 M T	STATE OF STREET, OF SCHEETER PAINTING CALLYTING (DV 12)	SM							32		32					-
04.15 M SI 02.128201 M 1: 02.128211 M P 102.258901 M 2 102.258911 M P 102.378901 M 3 102.378911 M P 107.01 M T 190.30 M N 502.92 M S 08520.5014 M S 5552.13 M T	REMOVAL AND DISPOSAL OF ASBESTOS CONTAINING CAULKING (BY 12)	LS						\longrightarrow	NEC		NEC		 			<u> </u>
02.128201 M	REMOVAL AND DISPOSAL OF MISC. ASBESTOS CONTAINING MATERIAL BV-12	LS	NEC													
102.128211 M	SUBBASE COURSE, OPTIONAL TYPE	CM .									2					
102.258901 M	12.5mm F2 SUPERPAVE HMA, 80 SERIES COMPACTION	MT	6		4		5		3		3		5		5	-
102,258911 M	PLANT PRODUCTION QUALITY ADJUSTMENT TO ITEM 402.128201M	QU	1		1		1		1		1	 	1	igsquare	1	
102.258911 M P 102.378901 M 3 102.378911 M P 107.01 M T 190.30 M N 502.92 M S 502.92 M S 552.13 M T	25mm F9 SUPERPAVE HMA, 80 SERIES COMPACTION	MT	10		6		8		5	· · ·	5		8	 	8	
102.378901 M	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.258901M	ĠΠ	1		1		1		1	<u> </u>	1	1	1	igsquare	1	
107.01 M T 190.30 M N 502.92 M S 08520.5014 M S	37.5mm, F9 SUPERPAYE HMA, 80 SERIES COMPACTION	MT														
107.01 M T 190.30 M N 502.92 M S 08520.5014 M S	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.378901M	σu			-											
190.30 M N 502.92 M S 08520.5014 M S	TACK COAT	L	22		13		17		12		12		17		17	
502.92 M S 08520.5014 M S 552.13 M T	MISC. COLD MILLING OF BITUMINUS CONCRETE	SM	61		37		48		31		31		48		48	
08520.5014 M S	SEALING TRANSVERSE JOINTS	и														
552.13 M 7	SAWCUT, ASPH, CONC/ASPH, OVERLAY- PCC PAVE	м	41		25		32		21		21		32		32	
-	TEMPORARY STEEL SHEETING	SM														
	CONCRETE FOR STRUCTURES - CLASS A	CM			1				1		2					
	CONCRETE FOR STRUCTURES, CLASS HP	CM	2		2		2		88		15		2		2	
		LM														
-	STRUCTURAL CRACK SEALING UNCOATED BAR REINFORCEMENT FOR CONCRETE STRUCTURES	KG		 					1975							
		KG	137	<u> </u>	109		140		2732		613		145		145	
	EPOXY COATED REBAR FOR STRUCTURES	SM	131		103		12		2132		77		173		143	
	TRANSVERSE SAWCUT GROOVING OF "STR SLAB SURF	1				-	12		1027		1031	\vdash				
10000111010	PROTECTIVE SEALER STRUCTURAL CONCRETE	SM	-		-		12				77	1				
	PROT SEAL STR. CONC NEW BRIDGE DECK OVERLAYS		-	 	-		12	<u> </u>			11	 				_
	STRUCTURAL STEEL	LS		-		-	_					 				
-	TYPE M.R. EXPANSION BEARING (1001 TO 2000 KN)	EA	-		-				8	\vdash				 		
565.1722 M	TYPE M.R. FIXED BEARING (1001 TO 2000 KN)	EA	-		-	-			8					 		
15565.4302 M	BRIDGE BEARING RESTORATION	EA	12						32	 	36	┼		 		<u> </u>
566.01 M	MODULAR EXPANSION JOINT SYSTEM, ONE-CELL	и	-						104		115			 		
566.02 M	MODULAR EXPANSION JOINT SYSTEM TWO-CELL	M	-		-	-		 		 				 		
	ARM JNT SYS WI COMPRESSION SEAL - TY A1	и	<u> </u>		-								_			-
567.32 M	ARM JNT SYS WI COMPRESSION SEAL - TY A2	М			 			-								<u> </u>
	ARM JNT SYS WI COMPRESSION SEAL - TY A5	N			13		17	\vdash					17		17	
567.36 M	ARM JNT SYS WI COMPRESSION SEAL - TY AG	М														
18567.46 M	ELASTOMERIC CONCRETE FOR BRIDGE JOINT SYSTEMS	м							31		21					
16567.640001 M	REPLACE COMPRESSION SEAL IN EXISTING BRIDGE JOINTS	м						\vdash				\vdash				
568.32 M	CEMENT MORTAR PADS	EA						$\vdash \vdash$		\square	-	 				
568.50 M	STEEL BRIDGE RAILING (2 RAIL)	И						\vdash				\sqcup				-
570.090001 M	ENVIRONMENTAL GROUND PROTECTION	LS							NEC			igsquare				
570.090002 M	ENVIRONMENTAL GROUND PROTECTION	LS									NEC					
570.090003 M	ENVIRONMENTAL GROUND PROTECTION	LS														
														$oxedsymbol{oxed}$		
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FED ROAD	STATE	CONTRA	SHEET	TOTAL		
REG. NO.	STATE	The second second control of	2044		NO.	SHEET
1	N.Y.	025	9214		189	432
BRIDGE RE	HABILI	TATION PROJECT	CELEMENT	SPEC	IFIC)	
VARIOUS E	RIDGES	ON INTERSTATE	481			
TOWNS OF	DEWIT	AND CICERO				
ONONDAGA	COUNT	γ				
P.J.N. 305	613		B.I.N. VARI	ous		

AS BUILT REVISIONS

SHEET 10 OF 12

ESTIMATE OF QUANTITIES



STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION

FILENAME 305613.L1A

			ES	TAMIT	E OF (QUANTI	TIES I	BY STE	RUCTUF	RE						
ITEM *	DESCRIPTION	UNIT	1093	3550	1093	561	1093	3562	109	3571	1093	572	1093	671	1093	672
11CM			EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL
570.090004 M	ENVIRONMENTAL GROUND PROTECTION	LS														
570.100001 M	ENVIRONMENTAL WATERWAY PROTECTION	LS							NEC							
570.100002 M	ENVIRONMENTAL WATERWAY PROTECTION	LS									NEC				_=	
16570.32 M	LOCALIZED PAINTING OF BARE STRUCTURAL STEEL	LK2							18		21					
16570.72 M	LOCALIZED VACUUM CONTAINED CLEANING OF STRUCTURAL STEEL PLANAR SURFACES	SM							18		21					
16570.76 M	LOCALIZED VACUUM CONTAINED CLEANING OF STRUCTURAL STEEL - IRREGUALR	SM														
571.010001 M	TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE	CM							1						_=_	
571.010002 M	TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE	cu									1		_=		_=	
571.010003 M	TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE	CN					<u> </u>						_==_		-=	
571.010004 M	TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE	CM					<u> </u>			ļ					_==-	
572,010001 M	STRUCTURAL STEEL PAINT SYSTEM SHOP APPLIED	SW							1							
572.010002 M	STRUCTURAL STEEL PAINT SYSTEM: SHOP APPLIED	SM								 	1					
576.2001M	DOWNSPOUT SYSTEM, DUCTILE IRON	M							3		4					
578.020001 M	OVERLAY CONCRETE - CLASS E	SM										 				
578,020002 M	OVERLAY CONCRETE - CLASS E	SM													_==_	
578.020003 M	OVERLAY CONCRETE - CLASS E	SH						<u> </u>		 	<u> </u>	 				
578,020004 M	OVERLAY CONCRETE - CLASS E	514		L					<u> </u>	 	77					
578.020005 M	OVERLAY CONCRETE - CLASS E	SM					12								_=-	
578,030001 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM		ļ						<u> </u>	<u> </u>	ļ				
578.030002 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM														
	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SW					<u> </u>									
578.030003 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SN									17					
578.030004 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM.					12	<u> </u>						ļ		
578.030005 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM							<u> </u>	<u> </u>	<u> </u>			<u> </u>		
578.030006 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SW	Γ				<u> </u>							<u> </u>		
578.030007 M		SM					12				77	<u> </u>				
579.02 M	REINFORCING BAR EXPOSURE	CH	2		2		2		62		15		2	<u> </u>	2	
580.01 M	REMOVAL OF STRUCTURAL CONCRETE REMOVE STRUCTURAL CONCRETE WITH CLASS A CONCRETE	СИ	16	1	1		1		43		46		2		5	
582.05 M	REMOVE STRUCTURAL CONCRETE AND REPLACE WITH VERTICAL OVERHEAD PATCH NATERIAL	SM					T		151		221					
582.07 M		KG		1			T									
16584.13 N	RAPID SETTING CONCRETE FOR BRIDGE AND APPROACH SLAB REPAIRS	EA	12				T									
585.01 M	STRUCTURAL LIFTING OPERATIONS - TYPE A	EA							21		25	T				
585.02 M	STRUCTURAL LIFTING OPERATIONS - TYPE B	EA	—	1		1			35		35					i
585.03 M	STRUCTURAL LIFTING OPERATIONS TYPE C	and and	19200	 	13050	1	16650		53700		59100		15600		15600	i
586.01 M	DRILL AND GROUT BOLTS, OR REINFORCING BARS	u NATI	13200	1	1,5000	1		1	T							
17586.18M	DRILLING HOLES IN EXISITING SUBSTRUCTURE	EA						1	1		1					ĺ
16586.200125		EA		 		<u> </u>	 	<u> </u>		1	1—					
16586,200216		1 2		 		 	1		 	1						
587.01 M	BRIDGE RAILING REMOVAL AND DISPOSAL	EA	+=	1			1==	1	4						_	<u> </u>
589,520001 M	REMOVAL OF EXISTING STEEL			1	t <u> </u>	†		1	1		6					
589.520002 M	REMOVAL OF EXISTING STEEL	EA EA	+=	-	† =	 		1	1		1	1		T		
589,520003 M			 	 	+==-	1		1	1=	1			 	1		
589,520004 M	REMOVAL OF EXISTING STEEL	EA	-	 	一	†	 	1	8	1	T	T				
589.520005 ¥	REMOVAL OF EXISTING STEEL	EA		1	† <u> </u>	 	1	 	7	1	9	1		<u> </u>		
590.01 M	VERTICAL ADJUSTMENT OF BRIDGE DRAINAGE DEVICES	U EA		1	t=-	 	† ==	 	<u> </u>	1	4	1				
603,6001 M	REINFORCED CONCRETE PIPE CLASS III, 300 mm	EA		+	 	 	+==	1		1	3					
603.7301M	REINFORCED CONCRETE PIPE END SECTION 300 mm DIAMETER	EX	+==	 	+=	1	+==	1	 	 	† <u> </u>	1		T		
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FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET	TOTAL
REG. NO.	312.0	DOCOO4 4	NO.	SHEETS
1	N.Y.	D259214	190	432
BRIDGE RE	HABILI	TATION PROJECT CELEMENT SPE	CIFIC)	
VARIOUS E	RIDGES	ON INTERSTATE 481		
TOWNS OF	DEWITT	AND CICERO		
ONONDAGA	COUNTY	1		
P.I.N. 305	613	BIN VARIOUS		

AS BUILT REVISIONS

SIGNATURE DATE

SHEET 11 OF 12 ESTIMATE OF QUANTITIES



STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

FILENAME 305613.L1A

DATE DRAWING NO. 10/02 QE-4B

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		ITEM *	(
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٦	h	605.0901 M	UNDERDRAIN FILTER TYPE 1
CHECKED		605.1702 M	OPT. UNDERDRAIN PIPE 150 mm #
훙		\$06.73 M	REMOVE AND DISPOSE OF BOX BEAM
	L	506.8701 M	CORRUGATED BEAM GUIDE RAILING TR
П		16606.80 M	TRANSITION BRIDGE RAILING TO BOX
		609.15 M	RESETTING EXISTING CURB
	 -	610.0203 M	ESTABLISH TURF CLASS II TYPE B EROSION CONTROL
æ,	 	612,0205 M	TREE AND VEGETATION BARRIER
		08615.0402 M 620.03 M	STONE FILLING (LIGHT)
DRAFTED		625.01 M	SURVEY AND STAKEOUT
٦		637.03 M	CONCRETE CYLINDER CURING BOX
		637.0702 M	ENGINEER'S OFFICE TYPE C
		10637.2101 M	FURN PORTABLE CELLULAR TELEPHON
		08637.3501 M	MICRO COMPUTER SYSTEM
-		15637.61 M	CPM SCHEDULE
₩		15637.51 M	DIGITAL CAMERA SYSTEM
8		15637.91 M	CHAMPS MANAGEMENT SYSTEM
MAT		15637.98 M	PARTNERING WORKSHOP
ESTIMATED		640.10 M	WHITE PAINT REFLEC PAVEMENT STR YELLOW PAINT REFLEC PAVEMENT ST
1		540.11 M	WILLED IN AUDIBLE ROWAY DELINS
		14646.10 M 23675.15M	FURNISH AND PLACE STONE BALLAST
		91685.0705 N	WHT POLYESTER REFLEC PAVEMENT
		91685.0706 M	YEL POLYESTER REFLEC PAVENENT
١		697,02 M	FIELD CHANGE ORDER
CHECKED BY		699,040001 M	MOSILIZATION
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					EST	IMATE	OF QL	ITITAL	ES BY	STRU	CTURE					
ITEM *	DESCRIPTION	UNIT	1093	550	1093	3561	1093	3562	1093	3571	1093	572	1093	671	1093	3672
			EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL
605.0901 M	UNDERDRAIN FILTER TYPE 1	СМ														<u></u>
\$05.0301 M	OPT. UNDERDRAIN PIPE 150 mm #	М					<u> </u>							ļ		
SC6.73 M	REMOVE AND DISPOSE OF BOX BEAM GUIDE RAIL	M												ļ		
606.8701 M	CORRUGATED BEAM GUIDE RAILING TRANSITION ASSEMBLY, TWO RAIL, STEEL BRIDGE RAILING	EA					<u> </u>		2		2					
	TRANSITION BRIDGE RAILING TO BOX BEAM GUIDE RAIL	м												 		ļ
609.15 M	RESETTING EXISTING CURB	<u>u</u>					<u> </u>									ļ
610.0203 M	ESTABLISH TURF	SM							100		200			ļ	-	ļ
612.0205 M	CLASS II TYPE B EROSION CONTROL MATERIAL	SM					<u> </u>		100		150					
08615.0402 M	TREE AND VEGETATION BARRIER	M	<u> </u>					ļ	150		150					ļ
620.03 M	STONE FILLING (LIGHT)	CM		ļ			<u> </u>		6		8					
625.01 W	SURVEY AND STAKEOUT	LS		 				ļ								
637.03 M	CONCRETE CYLINGER CURING BOX	EA	<u> </u>	ļ			<u> </u>									
637.0702 M	ENGINEER'S OFFICE TYPE C	MATH		ļ			 -	 								
	FURN PORTABLE CELLULAR TELEPHONE EQUIP.	LS	ļ -	ļ				 					<u> </u>			
08637.3501 M	MICRO COMPUTER SYSTEM	EA	<u> </u>	<u> </u>		ļ		 	 				 -	 		
15637.61 M	CPM SCHEDULE	LS	<u> </u>	ļ		ļ				ļ		 	<u> </u>	 		
15637.51 M	DIGITAL CAMERA SYSTEM	LS		 		ļ	 -		 			 		 	 	
15637.91 M	CHAMPS MANAGEMENT SYSTEM	LS	<u> </u>	ļ		 		 	<u> </u>			 		 		
15637.98 M	PARTNERING WORKSHOP	LS	<u> </u>	 			 			ļ		 		 		
640.10 M	WHITE PAINT REFLEC PAVEMENT STRIPES-0.38 REA	M	12	 	8	ļ	9	 	8	 	3	 	3	 	3	-
640.11 M	YELLOW PAINT REFLEC PAYEMENT STRIPES-0.38 ***	_н	3	 	4	ļ	6	 	6	 	6	 	6	 	8	
14646.10 M	MILLED IN AUDIBLE ROWAY DELINS (MIARO)	<u> </u>	↓ -	ļ				 		 	 -	 -		 	 	
23675.15M	FURNISH AND PLACE STONE BALLAST SURFACING COURSE	<u>ut</u>	-	 		 		 			2	 	-	 	+=	-
91685.0705 M	WHT POLYESTER REFLEC PAVELENT STRIPE	ы	12	 	8		9	 	8		8		9	 	9	
91685.0706 M	YEL POLYESTER REFLEC PAVELENT STRIPE	ч	9	J	4		6		6	 	6	 	6		6	
697,02 W	FIELD CHANGE ORDER	LS		ļ		ļ		 	 		 	<u> </u>				
699,040001 M	MOSIL IZATION	LS	NEC	ļ	NEC	ļ	MEC	 	NEC	 	MEC	<u> </u>	NEC	├ ──	MEC	├
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FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS 432					
1	N.Y.	D259214	191						
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	VARIOUS BRIDGES ON INTERSTATE 481								
TOWNS OF	FDEWITT	AND CICERO							
ONONDAG	ONONDAGA COUNTY								
P.I.N. 305613 B.I.N. VARIOUS									

STANDARD SYMBOL (PLANS)	ITEM PAYMENT UNIT: ESTIMATE OF QUANTITIES SHEET	EQUIVALENT NOMENCLATURE: SPEC BOOK/PROPOSAL
m	И	METER
m²	SQM	SQUARE HETER
an ³	CM	CUBIC METER
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ALL DIMENSIONS ARE IN IN UNLESS OTHERWISE NOTED

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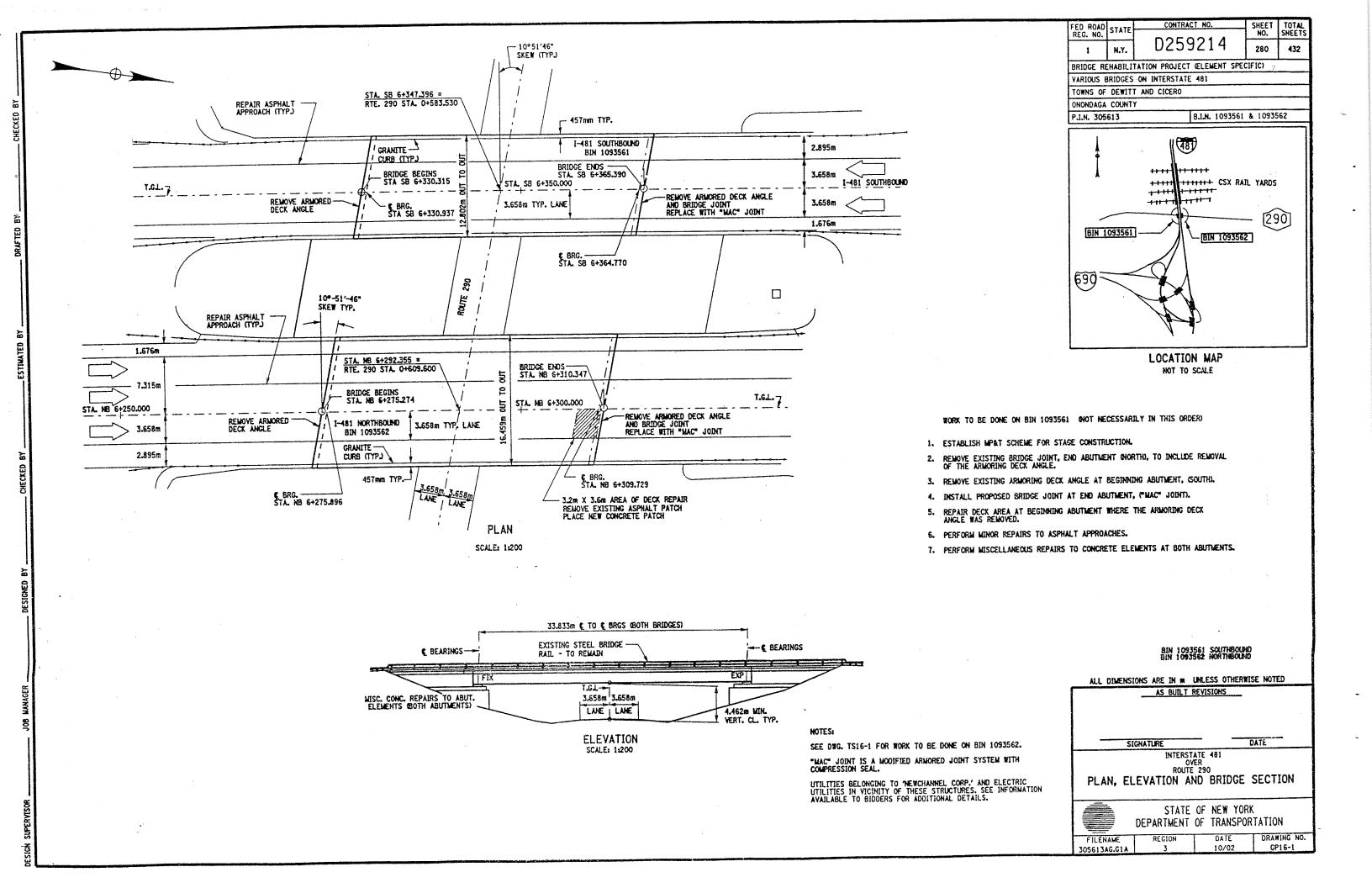
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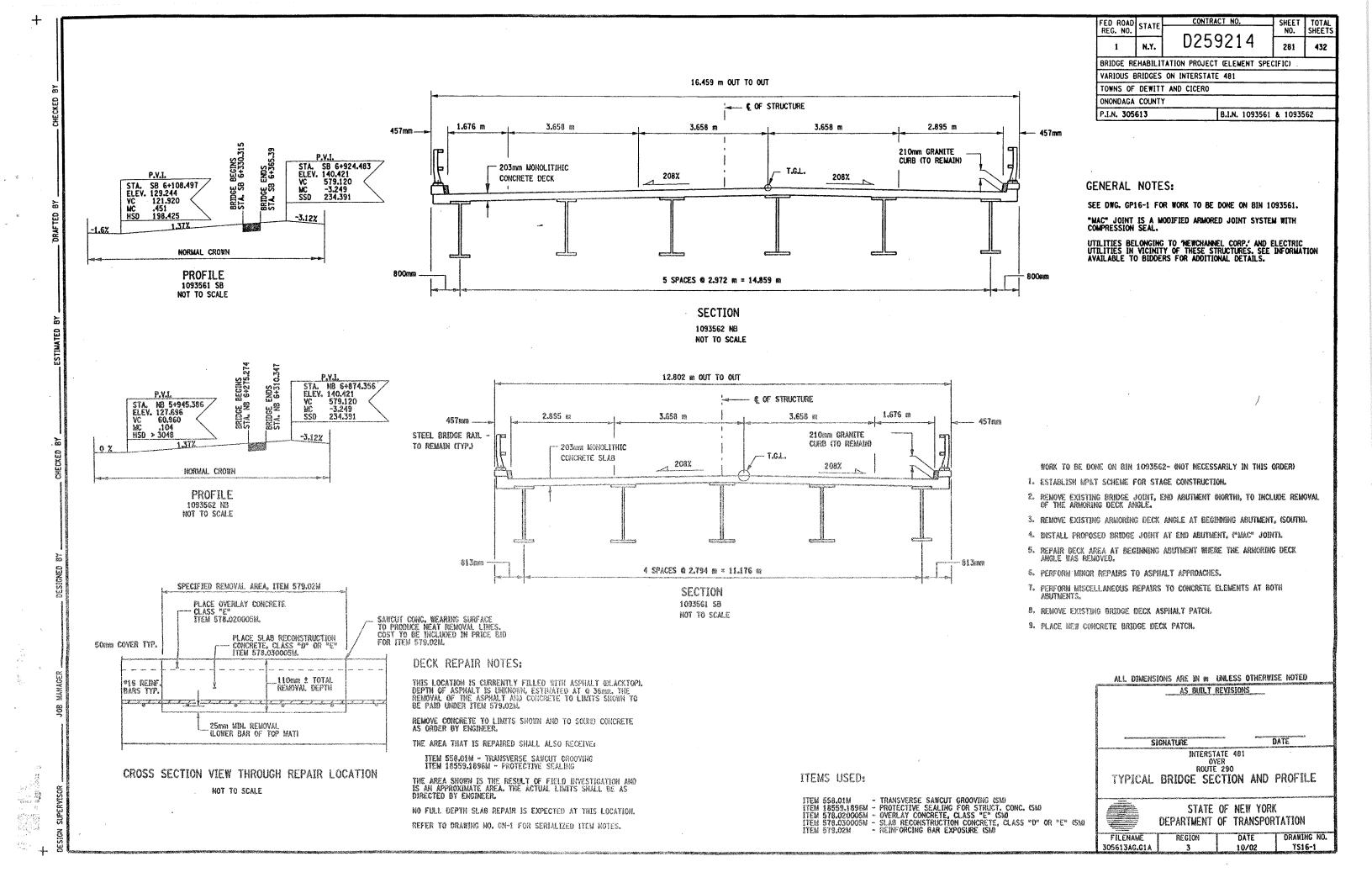
> SHEET 12 OF 12 ESTIMATE OF QUANTITIES

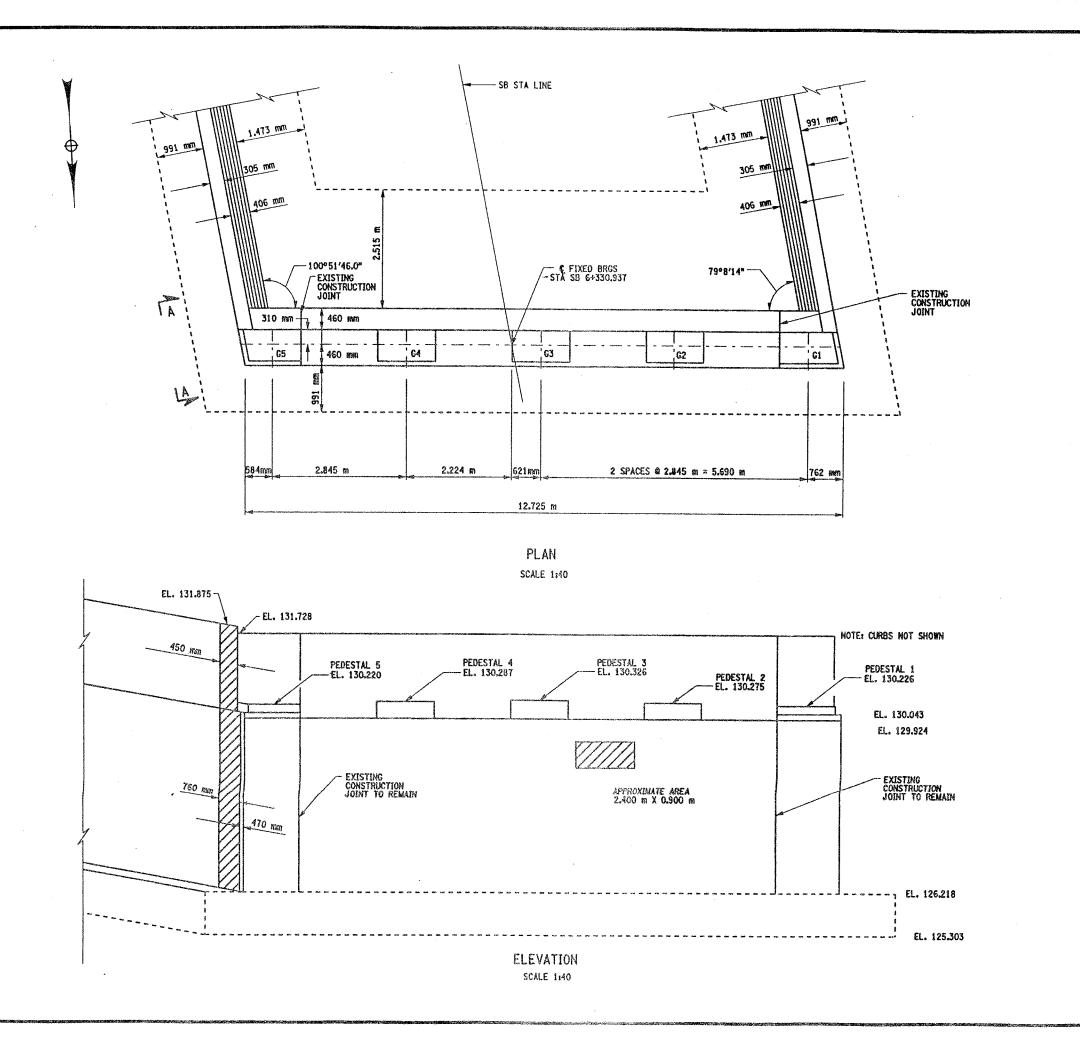


STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

FILENAME 305613.L1A







FED ROAD REG. NO. STATE CONTRACT NO. SHEET TOTAL SHEET.

1 N.Y. D259214

BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)

VARIOUS BRIDGES ON INTERSTATE 481

TOWNS OF DEWITT AND CICERO

ONONDAGA COUNTY

P.I.N. 305613

B.I.N. 1093561

NOTES:

- ALL DIMENSIONS SHOWN FOR CONCRETE REMOVAL ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND EIC.
- 2. REMOVE CONCRETE TO LIMITS SHOWN AS WELL AS TO SOUND CONCRETE, A.O.B.E.
- 3. WHEN REMOVING EXISTING CONCRETE, SAUCUT 5 ROOM MIN. TO PRODUCE NEAT REMOVAL LINES. ANY COST TO BE INCLUDED IN THE BID PRICE FOR ITEM 582.05M.
- 4. ALL EXISTING REINFORCEMENT TO REMAIN.
- 5. ELEVATIONS ARE GIVEN FOR QUANTITIY ESTIMATES ONLY.
- REFER TO CONTRACT FISH 70-7 FOR ORIGINAL CONSTRUCTION DETAILS AND D251436 FOR ADDITIONAL DETAILS.
- 7. FOR REMOVAL DETAIL SEE DWG. AB16-2.



LIST OF ITEMS USED:

ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE REPLACEMENT WITH CLASS A CONCRETE (CM)

ALL DIMENSIONS ARE IN IN LARLESS OTHERWISE NOTED

SIGNATURE DATE

INTERSTATE 481 SB
OVER
ROUTE 290
SOUTH ABUTMENT
PLAN AND ELEVATION



STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

FILENAME REGION DATE DRAWING NO. 305613AG,A1B 3 10/02 AB16-1

	B.I.N. NUMBER
	1093520
	1093540
	1093550
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B.I.N. NUMBER	LOCATION	JOINT SKEW	FOR JOINT (METERS)	LOC RT	AT'N LT	JOINT TYPE	JOINT TYPE	(METERS) (SEE NOTES)	LENGTH (METERS)	LENGTH (METERS)	ITEM NUMBER(S)	SECT VIEW	PLAN VIEW	FASCIA DETAIL
			WE TENO?	10.1	<u> </u>				LIZKI					
4007500	WEST ABUT.	10°-00′-00"		N	N	ADA		9,286	.464/.464	10.214		JD-47		JD-47
1093520	EAST ABUT.	3°-00′-00"	39.014	N	N	ACJ/ADA	RCS	9.157	.458/.458	10.073	16567.64M	JD-47		JD-47
	EAST ADDIS	3 00 00	33.011											
1093540	WEST ABUT.	3°-00'-00"		N	N	ACJ/ADA	RCS	9.157	.458/.458	10.073	16567.64M	JD-47		JD-47
	EAST ABUT.	3°-00′-00"	35.662	N	N	ADA		9.157	.458/.458	10.073		JD-47	· <u></u> -	JD-47
	,													
1093550	SOUTH ABUT.	51°-00'-00"		N	N	OPEN/ADA	RADA	18.890	.726/.726	20.342		JD-49	JD-48	
	NORTH ABUT.	51°-00′-00"	45.750	N	N	ADA	RADA	18.890	.726/.726	20.342		JD-49	JD-48	
1093561	SOUTH ABUT.	10°-51′-46"		N	N	ADA	RADA	12.104	.465/.465	13.034		JD-51	JD-50	JD-52
	NORTH ABUT.	10°-51′-46"	33.832	N	N	ACJ/ADA	MAC-5	12.104	.465/.465	13.034	567.35M	JD-51	JD-50	JD-52
``						,		(a) 1					<u> </u>	
1093562	SOUTH ABUT.	10°-51′-46"		N	N	ADA	RADA	15.828	.465/.465	16.758		JD-51	JD-50	JD-52
	NORTH ABUT.	10°-51′-46"	33.832	N	N	ACJ/ADA	MAC-5	15.828	.465/.465	16.758	567.35M	JD-51	JD-50	JD-52
							~				700 0414			
1093571	SOUTH ABUT.	8°-43′-42"	26.212	N	N	ACJ/ADA	MOD-1	10.330	.616/.616	11.562	566.01M	JD-55	JD-53	JD-56
	PIER 1	8°-43'-42"	46.939	N	N	OPEN	NONE	10.330	.616/.616	11.562		JD-56		
	PIER 2	8°-43′-42"	51.511	N	N	OPEN	NONE	10.330	.616/.616	11.562		JD-56		
	PIER 3	8° -43′-42"	59.740	N	N	OPEN	NONE	10.330	.616/.616	11,562				
	PIER 4	8°-43′-42"	59.740	N	N	OPEN	NONE	10.330	.616/.616	11.562				
	PIER 5	8°-43′-42"	59.740	N	N	OPEN	NONE	10.330	.616/.616	11.562			10.51	10.50
	PIER 6	8°-43′-42"	37.490	N	N	ACJ	MOD-1	10.330	.616/.616	11.562	566.01M	JD-55	JD-54	JD-56
	PIER 7	8°-43′-42"	37.490	N	N	ACJ	MOD-1	10.330	.616/.616	11.562	566.01M	JD-55	JD-54	JD-56
	PIER 8	8°-43'-42"	37,490	N	N	ACJ	MOD-1	10,330	.616/.616	11.562	566.01M	JD-55	JD-54	JD-56
	PIER 9	8°-43′-42"	44.196	N	N	OPEN	NONE	10,330	.616/.616	11.562		JD-56	10.54	10.50
	PIER 10	0°-00'-00"	37.643	N_	N	ACJ	MOD-1	10.210	.610/.610	11.430	566.01M	JD-55	JD-54	JD-56
	PIER 11	0°-00'-00"	37.643	N_	N	ACJ	MOD-1	10.210	,610/,610	11.430	566.01M	JD-55	JD-54	JD-56
	PIER 12	0°-00'-00"	37,643	N_	N	ACJ	MOD-1	10.210	.610/.610	11.430	566.01M	JD-55	JD-54 JD-54	JD-5
	PIER 13	0°-00′-00"	37.643	N_	N	ACJ	MOD-1	10.210	.610/.610	11.430	566.01M	JD-55	JD-54	JD-5
	PIER 14	0°-00′-00"	37.643	N	N	ACJ	MOD-1	10.210	.610/.610	11.430	566.01M	JD-55 JD-55	JD-54	J 0D-31
	NORTH ABUT.	0°-00'-00'		N	N_	ADA	RADA	10.210	.610/.610	11.430		00 33	00 37	-

JOINT

TABLE

BRIDGE

INFORMATIONAL NOTES:

BIN 1093550 & 1093571

CLEAN EXISTING DRAINAGE SYSTEMS AT OPEN JOINTS OFFN JOINTS TO REMAIN. AS SHOWN ON CONTRACT PLANS OR AS DIRECTED BY THE ENGINEER.

FOR JOINT DETAILS REFER TO THE FOLLOWING DRAWINGS;

DWG. NO. JD-1 - MODIFIED ARMORED COMPRESSION SEAL JOINT SYSTEM.
DWG. NO. JD-24 - ONE-CELL MODULAR JOINT SYSTEM.
DWG. NO. JD-25 - TWO-CELL MODULAR JOINT SYSTEM.

LIST OF BRIDGE JOINT ITEMS USED:

ITEM 566.01M - MODULAR EXP. JOINT SYSTEM ONE-CELL (M)
ITEM 566.02M - MODULAR EXP. JOINT SYSTEM TWO-CELL (M)
ITEM 567.31M - MODIFIED ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A1 (m)
ITEM 567.35M - MODIFIED ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A2 (m)
ITEM 567.35M - MODIFIED ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A5 (m)
ITEM 567.36M - MODIFIED ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A6 (m)
ITEM 16567.640001M - REPLACE COMPRESSION SEAL FOR EXISTING BROGE JOINTS (m)
ITEM 580.01M - REMOVAL OF STRUCT. CONC. (CM)

FED ROAD REG. NO.	STATE	CONTRA	CT NO.	_	SHEET NO.	TOTAL			
1	N.Y.	D259	363	432					
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)									
VARIOUS BRIDGES ON INTERSTATE 481									
TOWNS OF DEWITT AND CICERO									
ONONDAGA	COUNT	Y							
P.I.N. 305	613		B.I.N. ALL	BINS					

LEGEND

EXISTING JOINT TYPE:

ACJ = ARMORED COMPRESSION JOINT SYSTEM MOD = MODULAR JOINT SYSTEM

MAC = MODIFIED ARMORED COMPRESSION SYSTEM (NO HORIZ. ARMORING ANGLE)

ADA = ARMORED DECK ANGLE SS = STRIP SEAL JOINT

OPEN = OPEN JOINT

PROPOSED JOINT TYPE:

MAC-1 = MOD. ARM./COMP. SEAL JT. SYS. (A-1) MAC-2 = MOD. ARM./COMP. SEAL JT. SYS. (A-2) MAC-5 = MOD. ARM./COMP. SEAL JT. SYS. (A-5) MAC-6 = MOD. ARM./COMP. SEAL JT. SYS. (A-6) RCS = REPLACE EXISTING COMPRESSION SEAL

RADA = REMOVE ARMOR DECK ANGLE MOD-1 = MODULAR JT. SYS. (ONE-CELL) MOD-2 = MODULAR JT. SYS. (TWO-CELL)

JOINT BEND LOCATION:

N = NO BENDS CRB = CURB LINE PAV'T = PAVEMENT

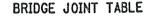
GENERAL NOTES:

- ALL MEASUREMENTS SHALL BE FIELD VERIFIED.
- CURB TO CURB LENGTHS ARE MEASURED ALONG & OF JOINT.
- MULTIPLE DIMENSIONS ARE SHOWN LOOKING UP-STATION, LEFT TO RIGHT.
- ALL DIMENSIONS ARE SHOWN IN METERS.

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED AS BUILT REVISIONS

SIGNATURE

INTERSTATE 481 VARIOUS BRIDGES

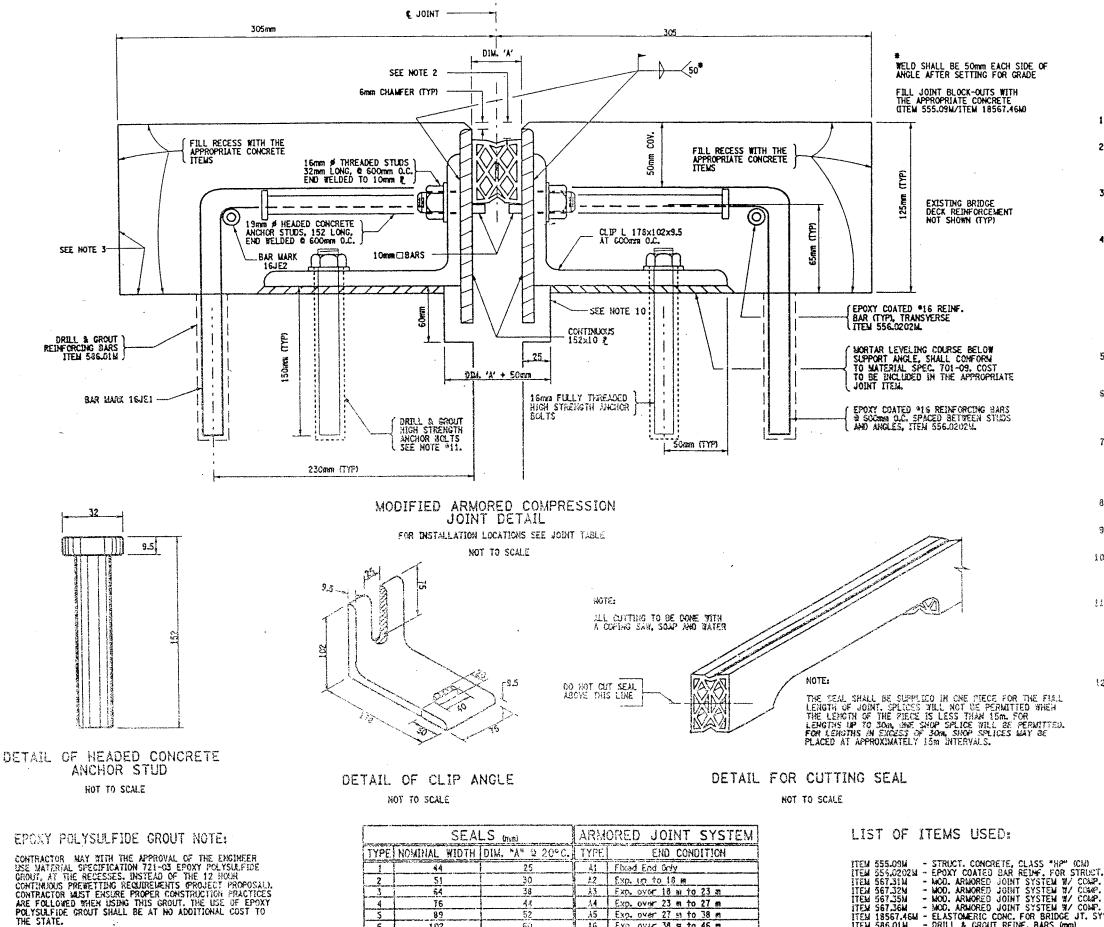




STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION

DATE

DRAWING NO. 305613AJJJA1



CONTRACT NO TOTAL FED ROAD SHEET NO. REG. NO. N.Y. 365 432 BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC) VARIOUS BRIDGES ON INTERSTATE 481 TOWNS OF DEWITT AND CICERO ONONDAGA COUNTY P.I.N. 305613 B.I.N. ALL BIN'S

GENERAL NOTES:

- 1. THE TEMPERATURE OF THE BRIDGE MUST BE TAKEN ON THE STRUCTURAL STEEL SURFACE TO DETERMINE THE TEMPERATURE CORRECTION FOR THE JOINT OPENINGS.
- 2. THIS DEPTH SHALL BE INDICATED ON THE SHOP DRAWINGS AND SHALL BE SUCH THAT WHEN THE SEAL IS COMPRESSED TO 50% OF ITS NORMAL WIDTH, THE TOP OF THE SEAL SHALL BE NOT LESS THAN 6mm NOR MORE THAN 19mm BELOW THE TOP OF THE ROADWAY.
- 3. RECESSES RECEIVING ITEM 555.09M. AFTER SURFACE PREPARATION, THOROUGHLY WET THE CONCRETE SURFACE AND ALL POROUS SURFACES TO BE IN CONTACT WITH NEW CONCRETE, FOR 12 HOURS, NOTE THE USE OF MATERIAL SPECIF, 705-22 PORTLAND CEMENT MORTAR BONDING GROUT HAS BEEN ELIMINATED, SEE INSERT IN PROJECT
- 4. A MATER-TIGHT INTEGRITY TEST SHALL BE PERFORMED BY THE CONTRACTOR AT ALL COMPRESSION SEAL JOINT INSTALLATIONS. THE FOLLOWING TEST PARAMETERS SHALL BE INCORPORATED IN THE TEST:
 - A 15 MEMUTE MENIMUM PERIOD OF STANDING WATER, WITH A 25mm MINIMUM DEPTH SHALL BE USED.
 - 2. IN ADDITION, IN LOCATIONS OF COPED AREAS OF THE SEAL, BENDS, ETC., WATER PRESSURE SHALL BE APPLIED, TO THE SATISFACTION OF THE EIC FOR A 15 MINUTE PERIOD.
 - 3. LIMITS OF TEST AREA SHALL BE FROM FACE OF CLRB TO FACE OF CLRB ON THE DECK SURFACE.
- 5. NO PAYMENT WELL BE MADE TO THE CONTRACTOR FOR THE JOINT IF, IN THE OPINION OF THE ENGINEER, THE INSTALLED JOINT LEAKS WITHIN THE 15
- S. PRIOR TO THE START OF BORK AT EACH JOINT, THE CONTRACTOR SHALL SLEMIT A BRITTEN PLAN FOR THE SPECIFICS OF THE TESTENG, INCLUDING CONTAINMENT OF THE BATER AND THE METHOD TO BE USED FOR ACCESS BY THE ELLC. TO THE BOTTOM OF THE JOINT BEING TESTED.
- 7. THE COST OF ALL LABOR, EQUIPMENT AND MATERIALS REQUIRED FOR THE TESTING WHICH INCLUDES. BUT IS NOT LIMITED TO:
 - 1. A CONTAINMENT SYSTEM FOR THE TEST WATER.
 - PROVISIONS FOR ELLC. ACCESS TO THE BOTTOM OF THE JOINT. SHALL BE INCLUDED IN THE PRICE BID FOR THE RESPECTIVE JOINT ITEMS.
- 8. THE COST OF ALL LABOR, EQUIPMENT, AND MATERIALS TO INSTALL THE NEW JOINT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE APPROPRIATE JOINT ITEM.
- 9. MORTAR LEVELING COURSE SHALL COMPORM TO MATERIAL SPECIFICATION 701-09 AND SHALL BE INCLUDED IN THE PRICE BID FOR THE APPROPRIATE JOINT ITEM.
- 10. THE DIMENSIONS OF THE REMOVAL AREA LADOR THE 152×10 PLATES ARE SHOWN TO ALLOW SPACE FOR THE PLATES TO REST FREELY. IF THERE IS ALREADY ADEQUATE SPACE, NO CONCRETE REMOVAL OR REPLACEMENT IS REGURED IN
- 11. 16 mm # ASTM A3284 AMCHUR BOLT TO BE DRILLED AND GROUTED IN PLACE IN ACCORDANCE WITH THE RESIDEMENTS OF SUB-SECTION 536-3.02, GROUTING MATERIALS SHALL BE IN ACCORDANCE WITH MATERIALS SUB-SECTION 701-07 ARCHORUNG MATERIALS-CHEMICALLY CHRING, HOLES TO BE ORILLED TO THE DIAMETER AND DEPTH RECOMMENDED BY THE MANUFACTURER OF THE GROUTING MATERIAL SHIM, DEPTH OF 150 mm. THE COST OF THE ANCHORS, INCLUDING CRILLING AND GROUTING, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE APPROPRIATE JOINT SYSTEM ITEM.
- 12. IT IS DESIRABLE TO HAVE THE ARMORED JOINT WITH ITS COMPRESSION SEAL ASSEMBLED IN THE SHOP AND DELIVERED TO THE JOB SITE ALL SET FOR INSTALLATION IN ITS PREFORMED RECESS IN THE STRUCTURAL SLAB, IN CASES WHERE THE ARMORED JOINT CANNOT BE ASSEMBLED IN THE SHOP, DUE TO ITS EXCESSIVE LENGTH CAUSING SHIPPING PROBLEMS, THE JOINT SHALL BE SEALED WITH THE COMPRESSION SEAL BEFORE THE STRUCTURE IS OFFICE TO TRAFFIC INCLUDING CONSTRUCTION THAT IN STRUCTURE IS OFFICE TO TRAFFIC INCLUDING CONSTRUCTION THAT INTERPRED TO TRAFFIC THE STRUCTURE IS OFFICE TO THE STRUCTURE IN OFFICE THE STRUCTURE IS OFFICE TO THE STRUCTURE IN OFFICE THE STRUCTURE IS OFFICE TO THE STRUCTURE OFFI THE STR MORK IS SUSPENDED DURING THE MINTER.

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED AS BUILT REVISIONS

DATE SIGNATURE

INTERSTATE 481

COMPRESSION SEAL JOINT DETAILS



STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION

FILENAME DRAWING NO. REGION DATE 305613AJJJA1 .ID-1 10/02

ITEM 555.09M - STRUCT. CONCRETE, CLASS "HP" (CM)
ITEM 555.0202M - EPOXY COATED BAR RELWF. FOR STRUCT. (CG)
ITEM 557.31M - MCOL ARMORED JOINT SYSTEM W/ CCAP. SEAL TYPE A1 (m)
ITEM 567.35M - MCOL ARMORED JOINT SYSTEM W/ CCAP. SEAL TYPE A2 (m)
ITEM 567.35M - MCOL ARMORED JOINT SYSTEM W/ CCAP. SEAL TYPE A5 (m)
ITEM 5567.45M - MCOL ARMORED JOINT SYSTEM W/ COAP. SEAL TYPE A6 (m)
ITEM 586.01M - ELASTOMERIC CONC. FOR BRIDGE JT. SYSTEMS (M)
ITEM 586.01M - DRILL & CROUT RELWF. BARS (mm)

Fixed End - No Limit Exp. End - 45° A2 thru A6

4

76

89 102

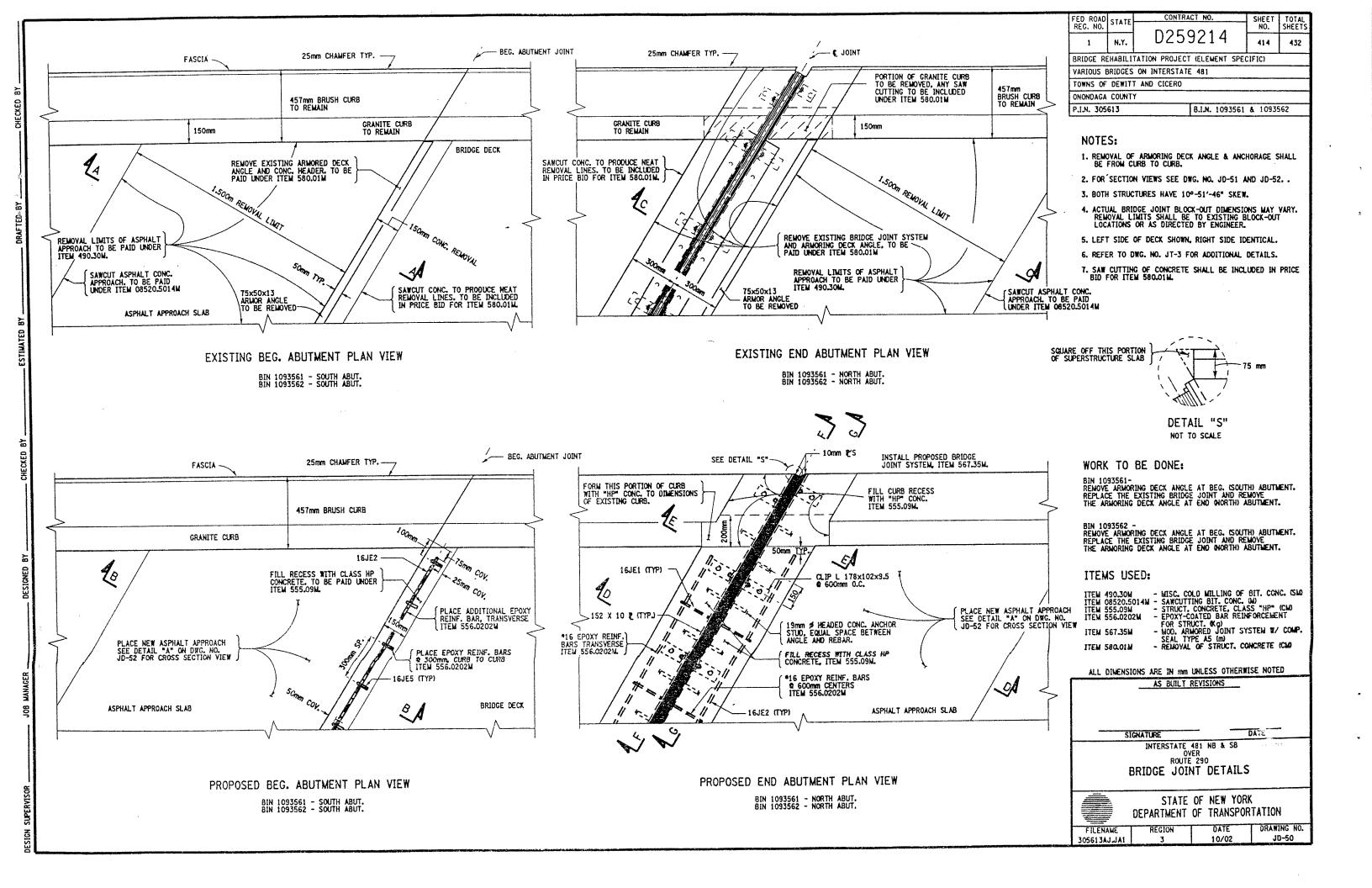
Moximum Skew Limiter

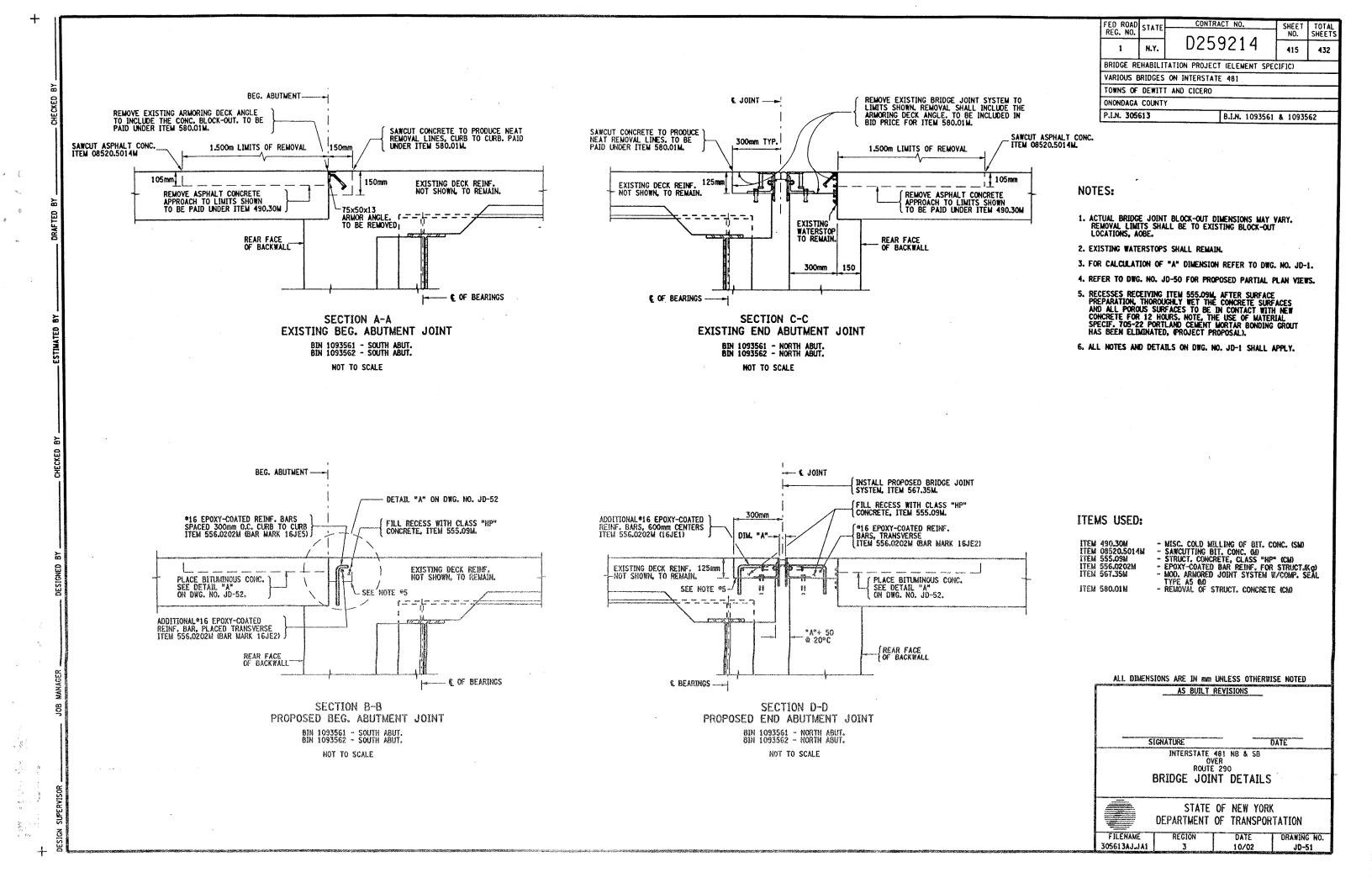
44

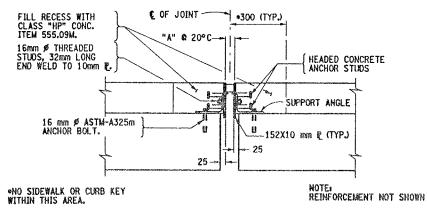
A4 Exp. over 23 m to 27 m

A5 Exp. over 27 m to 38 m

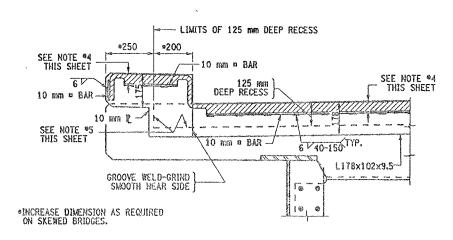
46 Exp. over 38 m to 46 m



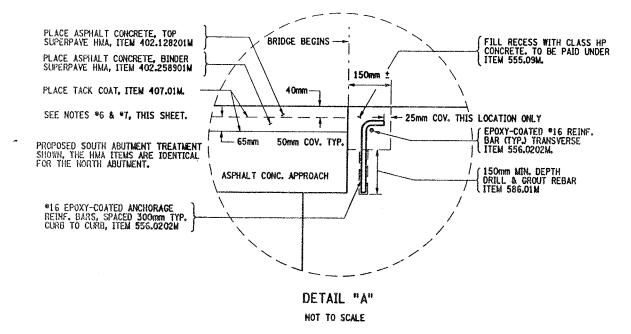


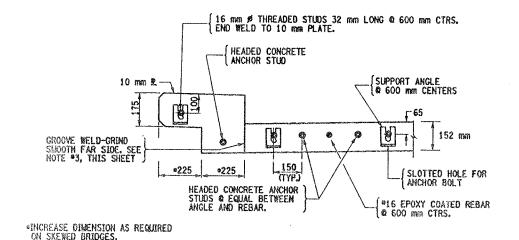


SECTION E-E PROPOSED ABUTMENT JOINT NOT TO SCALE



PROPOSED ABUTMENT JOINT SECTION F-F (BRUSH CURB) NOT TO SCALE





PROPOSED ABUTMENT JOINT SECTION G-G (BRUSH CURB) (ONLY THE STEEL SHOWN) NOT TO SCALE

FED ROAD REG. NO. TOTAL SHEETS CONTRACT NO SHEET NO. N.Y. 416 432 BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC) VARIOUS BRIDGES ON INTERSTATE 481 TOWNS OF DEWITT AND CICERO ONONDAGA COUNTY P.I.N. 305613 B.I.N. 1093561 & 1093562

NOTES:

- 1. ACTUAL BRIDGE JOINT BLOCK-OUT DIMENSIONS MAY VARY. REMOVAL LIMITS SHALL BE TO EXISTING BLOCK-OUT LOCATIONS, AOBE.
- 2. REFER TO DWG. NO. JD-50 FOR PARTIAL PLAN VIEWS.
- 3. ALL WELDS SHALL BE GROUND SMOOTH TO THE SATISFACTION OF THE ENGINEER, ON SEAL CONTACT SIDE OF EDGE BEAM.
- 4. THIS DEPTH SHALL BE INDICATED ON THE SHOP DRAWINGS AND SHALL BE SUCH THAT WHEN THE SEAL IS COMPRESSED TO 50% OF ITS MOMINAL WIDTH, THE TOP OF THE SEAL SHALL BE NOT LESS THAN 6 mm NOR MORE THAN 19 mm BELOW THE TOP
- 5. RECESSES RECEIVING ITEM 555.09M, AFTER SURFACE PREPARATION, THOROUGHLY WET THE CONCRETE SURFACES AND ALL POROUS SURFACES TO BE IN CONTACT WITH NEW CONCRETE FOR 12 HOURS, NOTE, THE USE OF MATERIAL SPECIF. 705-22 PORTLAND CEMENT MORTAR BONDING GROUT HAS BEEN ELIMINATED, PROJECT PROPOSAL).
- 6. ALL SURFACES OF HMA SHALL BE CLEAMED AND TACK-COATED PRIOR TO HMA PLACEMENT. ALL COSTS SHALL BE INCLUDED WITHIN THE UNIT PRICE BID FOR ITEM 407.01M.
- ANY USE OF SUPERPAYE HMA ITEMS SHALL INCLUDE THE APPROPRIATE PLANT PRODUCTION QUALITY ADJUSTMENT ITEMS.

ITEMS USED:

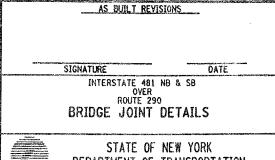
SUPERPAVE HMA F2, 12.5mm (MT)
PLANT PRODUCTION QUALITY ADJUSTMENT
TO 402.128201M (QU)
SUPERPAVE HMA F9, 25.0mm (MT)
PLANT PRODUCTION QUALITY ADJUSTMENT
TO 402.258901M (QU) ITEM 402.128201M ITEM 402.128211M

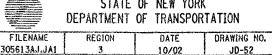
ITEM 402.258901W ITEM 402.258911W

ITEM 407.01M TACK COAT (L)

ITEM 556.0202M ITEM 555.09M ITEM 586.01M - EPOXY-COATED BAR REINF, FOR STRUCT, (CQ) - STRUCT, CONCRETE, CLASS "HP" (CM) - DRILL & GROUT REINF, BARS (mm)

ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED







BULK (NOB) ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY AND TRANSMISSION ELECTRON MICROSCOPY

ENVIRONMENTAL SERVICES INC.

Tel (718) 784-7490 Fax (718) 784-4085

CLIENT: NYS DOT, Region 3 LABORATORY ID #: 04-04-109 DATES OF ANALYSIS: 04/29/04

PROJECT: Bin # 1093561

ANALYT. METHODOLOGIES: ELAP 198.1, ELAP 198.4

DATE OF REPORT: 04/30/04

LABORATORY RESULTS

CLIENT #	LAB. ID #	LOCATION	%ORG	%ASI	%AII	PLM RESULTS	TYPE OF ASBEST.	TEM RESULTS	TYPE OF ASBEST.	POSIT. / NEGAT.
01	04-04- 109-01	Steel paint coat G-5 bottom flange @4meters from end bearing	41.93	9.49	48.58	ND	NA	ND	NA	Negat.
02	04-04- 109-02	Steel paint coat G-3 web @ 0.5 meters from end bearing	49.89	6.14	43.97	ND	NA	ND	NA	Negat.
03	04-04- 109-03	Steel paint coat G-2 bearing end abutment	41.92	12.96	45.12	ND	NA	ND	NA	Negat.

ANALYST E. Sioukri LABORATORY DIRECTOR
Spiro Dongaris

LABORATORY CERTIFICATION NUMBERS: NVLAP 101958, ELAP 10955

- Athenica Environmental Services Inc. (AES), is responsible only for information pertaining to samples taken by its employees.
- Samples will be stored for sixty (60) days. AES Inc., should be notified within this time frame for a true duplicate analysis.
- The report relates only to items tested. This report must not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. Test reports may not be reproduced except in full and with prior approval of AES Inc.
- The liability of Athenica Environmental Services Inc. with respect to the services charged, shall in no event exceed the amount of the invoice.

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Asbestos Sampling Survey

Location:

BIN 1-09356-1 Interstate Route 481 South Bound over Route 290

Prepared for:

New York State Department of Transportation

PIN 3804.09.101

LaBella Project No. 97132

May, 1999

Table of Contents

		Page
I.	Project Summary	1
II.	Site Description	1
III.	Inspection Procedures	1
IV.	Results	2
Certifi	ication	2

Figures and Table

I. Project Summary

In accordance with conditions of Term Agreement D010010, LaBella Associates, P.C. conducted an asbestos sampling survey of the Interstate Route 481 South Bound bridge over Route 290. Based on laboratory analyses of bulk samples collected, the following material was determined to contain asbestos:

BIN 1-09356-1 Interstate Route 481 South Bound over Route 290

Type of Material	Estimated Amount
Sheet Packing	8.1 Square Meters

II. Site Description

The Site is located in Onondaga County, New York. For the purpose of this report, the Site consists of the Interstate Route 481 South Bound bridge over Route 290 (See attached FIGURE 1 - Site Location Map).

III. Inspection Procedures

The following procedures were used to obtain the data for this Report:

- A. A review of record drawings supplied by Region 3 personnel and a visual inspection of the subject structure were conducted to identify potential visible/accessible sources of asbestoscontaining materials. Observations and notes were made to provide a description of the structure, and an estimate of the approximate amount, length, or area of ACM present.
- B. Physical or operational constraints which might affect the removal of the ACM were identified and reported.
- C. Bulk samples of suspected ACM were collected during the site inspection of the subject structure. Samples were taken from each homogeneous area that may contain ACM.
- D. Samples were submitted for analysis. Preliminary PLM analyses of NOB materials were performed by LaBella Laboratories, a NYSDOH approved laboratory, to determine the presence and percentage of asbestos in each sample. TEM analyses of NOB materials, if necessary, were performed by New York Testing Laboratories, Inc.
- E. Lab results were used to determine the approximate location, type, and amount of the verified ACM.
- F. A drawing of the structure at the Site was created, in order to show sample locations and the approximate locations and amounts of confirmed ACM observed in accessible locations.

Only accessible areas were inspected. Inaccessible areas, such as areas within the bridge or the approaches to the bridge were not included in this inspection. No investigation was conducted by LaBella Associates to determine the presence of underground utilities on or in the immediate vicinity of the Site. Actual sample locations are shown in the attached FIGURE 2. Results of bulk sample analyses are tabulated in the attached TABLE.

IV. Results

BIN 1-09356-1 Interstate Route 481 South Bound over Route 290

Sheet Packing

Asbestos-containing sheet packing is located between the tops of the abutments and the deck slab at both ends of the bridge. Most of this material is presently covered by the bridge deck, although the edges of this sheet packing are exposed and visible at various locations.

It is estimated that the total amount of this asbestos-containing sheet packing material on the bridge is approximately 8.1 square meters. This estimate is based on field measurements taken at the time of the site visit.

The approximate locations of this asbestos-containing sheet packing are shown in FIGURE 2.

Certification

LaBella Associates, P.C. certifies the accuracy of this report, to the best of our knowledge, based on the information collected as described in the Inspection Procedures Section of this investigation.